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AMERICAN RIFLEMAN

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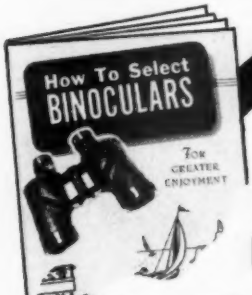

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AMERICAN RIFLEMAN

The Rifle 1885-1888
Shooting and Fishing 1888-1906
Arms and the Man 1906-1923

Official Journal of the NATIONAL RIFLE ASSOCIATION OF AMERICA
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The desert bighorn sheep on the cover was photographed by E. P. Haddon, of the U.S. Fish and Wildlife Service, on the Kofa Wildlife Refuge near Yuma, Arizona. The hunting of bighorn sheep is discussed in the article on page 16.

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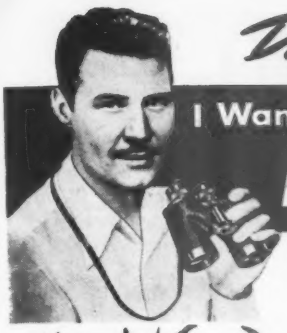

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That's why good deer hunters—and this includes many of the old-timers—go into training long before the season opens. Here are some tips the experts have passed along to us:

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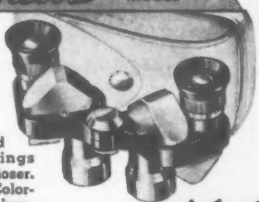

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InCidenTa/Ly

Considering the fact that, in the course of a year, the six technical writers who make up the Dope Bag 'Panel of Experts' answer roughly 12,000 letters, a goodly number of the 250,000-odd RIFLEMAN readers either choose to ignore the service which is available to them or they are not aware of it. Since the Dope Bag is extremely popular with RIFLEMAN readers, however, we think some just do not wish to use the service. Certainly that five percent who write questions to the Dope Bag couldn't get any more practical answers to their questions than those letters which go out in answer to inquiries. But now we're away from our intention in writing this, which is to tell RIFLEMAN readers something about the Dope Bag feature.

When a letter asking for technical information about guns or hunting or shooting is received at the NRA, it is routed to one of the Dope Bag writers: Julian S. Hatcher, Harold MacFarland, Al Barr, Phil Sharpe, Elmer Keith, or Hugh C. Stith. Only two of these men, Hatcher and Stith, have offices in the NRA. Keith, Sharpe, Barr, and MacFarland answer letters from their own homes, having been engaged by the NRA for no other purpose than to answer members' inquiries. Besides, each has his own interests to pursue. Keith is located out in the high mountainous country of Idaho, and guides and hunts regularly there. Sharpe maintains his own ballistics laboratory at Philipsburg, Pennsylvania, and conducts all sorts of routine and unusual experiments with guns, some of which find their way into the RIFLEMAN. MacFarland operates his own gunsmithing business in Prescott, Arizona. Barr writes from his home in Arlington, Virginia, from which he frequently travels to attend bench-rest matches in Pennsylvania, or to hunt chucks or deer down in Virginia, and where he does all of his reloading.

Nature of a question frequently determines who will answer it, though not always. If one of the four who operate from their homes is selected to answer it, the letter is sent out to him, which explains the reason an answer to a question asked a Dope Bag writer may carry a postmark from some out-of-the-way place.

Some years ago—in the August 3, 1916 issue, in fact—*Arms and the Man*, just five weeks after the NRA obtained the magazine which has become the AMERICAN RIFLEMAN, inaugurated a column headed "Inquiries of General Interest". In it were published "excerpts from requests for information . . . the replies to which may be of a generally informative nature." The column was published only occasionally for some time, until in the December 1, 1919 issue Captain Townsend Whelen began conducting the column, which was renamed "Loads and Re-Loads" and appeared thereafter as a regular feature of the magazine. In December 1, 1921, the column was given the name which it carries today—The Dope Bag. To augment Captain Townsend Whelen in answering inquiries from readers, Major Julian S. Hatcher and Captain Charles Askins were added to the staff of the Dope Bag on March 15, 1922. According to the information given below the heading "Dope Bag" in that issue, Major Whelen was to answer questions on rifles and big game hunting, Major Hatcher letters concerning pistols and revolvers, and Captain Askins inquiries dealing with shotguns and field shooting. In practice, the three men did not maintain a literal devotion to questions within each category, and in looking over the old issues one finds Whelen answering questions on handloading and gunsmithing, Hatcher writing on semi-automatic rifles, and Askins holding forth on gunpowders.

In May 1932 the Dope Bag was taken over by Fred C. Ness, a fellow with a wealth of practical experience with guns who had contributed numerous articles to the RIFLEMAN. Ness conducted that section of the RIFLEMAN for fourteen years, during which time he obtained a helper whose name is known widely among shooters today—Al Barr.

In March 1946, with the retirement of Ness to his home in Minnesota, Julian S. Hatcher once again took over the Dope Bag. Since that date four of the present group of Dope Bag writers have been recruited. Considering the diversity of interests in the gun field of the entire group, and the practical experience each has had, chances are that, if you ever address a question to the Dope Bag, the answer you get will be—above all else—useful.—J.A.H.

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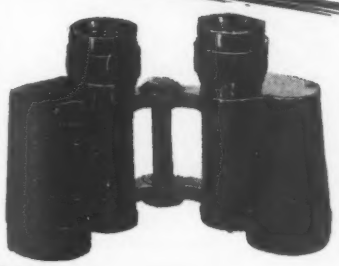

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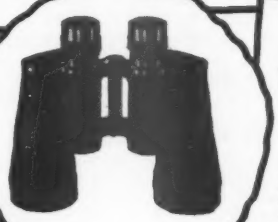

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LISTER MEMORIAL

Seattle, Washington

Editor:

The untimely death of C. B. Lister has given to many of us a deep sense of personal loss, and leaves us with the feeling that the Association has lost one of its outstanding men in the organizational field. He will long be remembered by all.

Here is a thought, perhaps not original, regarding a permanent sort of monument or memorial dedicated to Lister and what he worked for, for all of us.

A national range, a revolving building fund for assisting small clubs to build ranges and clubhouses. There are many such projects that nearly 300,000 members could get behind and put over with subscribed funds.

The least we could do would be for every member to sign up one member, not two or six, just one for Lister. We would then be 600,000 strong.

C. B. Lister would have liked that.

ALMONTIE C. SMITH

● *C. B. Lister would have liked an NRA that numbered 600,000 members strong.*

Several similar suggestions for the establishment of a permanent memorial to C. B. Lister have been made, but the NRA would like to hear more suggestions from members as to the type of memorial and to the ways and means of raising funds for the memorial.

SUDAEV, NOT SUDAREV

Hudson, Ohio

Editor:

Regarding my article on Russian Small Arms . . . in the picture captions and in the text of my article, the Tokarev semi-auto pistol should be designated the Model TT-33.

The 1942 and 1943 machine pistols mentioned in it should be spelled "Sudaev", not Sudarev.

If I'd had this sooner, I'd have included it in the text.

ROGER MARSH

● *Thanks are due Roger Marsh for these corrections. Apologies are due Roger Marsh for the inadvertent omission of his name as author of the article "Russian Small Arms," page 10, July issue.—Ed.*

AIMLESS FIRE, HELL . . .

East Detroit, Michigan

Editor:

In regard discussion 'aimed vs aimless fire.' Too many people think the sling and sights are forgotten once the range is left behind. Once I did too, until . . .

It was one of those little fire fights so common early in the battle of Saipan. I was still pretty green, even after having been on Tarawa with the Second Marine Regiment. First the enemy would have our heads down, then we would get theirs down, but we weren't getting anywhere. Then I looked up and down the line through the grass. Man after man was sitting up, calmly putting on a target sling, and setting the sights on his M1 for the 300-yard range.

(Continued on Page 9)

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Hal Harrison from National Audubon Society

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BETTER THINGS FOR BETTER LIVING . . . *THROUGH CHEMISTRY*

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WORLD-FAMOUS SINCE 1802

(Continued from Page 6)

Those of us that hadn't felt too sure what to do now knew; we followed suit. In ten minutes the Japs broke and ran before the slow, sure fire and were picked off as they went over the ridge. What confidence that incident gave the bunch of us.

Aimless fire, hell. . . .

CHARLES GALE
Formerly Platoon Sgt.
Second Marine Regiment

Newark, Ohio

Editor:

If the Marines are ever broken up, as a lot of characters keep saying they should, they should make them a corps of marksmanship instructors for the Army. At least they prepare for a war on the theory that someone has to fight in it.

JOHN P. CONLON

OVERGROWN RANGES

Albany, New York

Editor:

I have read the articles on the training in the Army and Marines and also on .30 caliber shooting. I think that you would be in for an even bigger shock if you looked into the training which the National Guard receives. It is so poor that it should be done away with and the ammo saved. The recruit goes on the range with considerable knowledge of how to take his rifle apart and clean it, but that is the end. He has very little knowledge of how to shoot. I know, I am a sergeant in the New York Guard.

As far as .30 caliber is concerned, we have a good range in the area but it needs a lot of work—it is all overgrown. The Guard has a very nice range but it is only 200 yards and no one else can get permission to use it. The big thing which stops us is the price of ammo. At 15 cents a round I have to work 6 minutes for one shot, and the government allowance of 120 rounds is not enough.

EDGAR WAKEMAN

POINTERS ON CHECKERING

Claremore, Oklahoma

Editor:

I . . . enjoyed very much the article and the photos by Robert D. Emmons on "Checkering a Gun Stock". I have tried to do a little checkering on my own guns as a hobby, but the result was not always something I would want to leave lying around in the front rooms. Thanks again for a fine article, it is straight to the point, complete, and illustrated so that even a hobbyist like myself can follow the instructions.

BRAN W. BLOCKER

Glens Falls, New York

Editor:

I was intensely interested in the article regarding Monty Kennedy and his checkering. I've been doing my own for several years but I feel that there are more good pointers in that brief article than in many a book I have read.

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ACCURACY

By ELMER KEITH

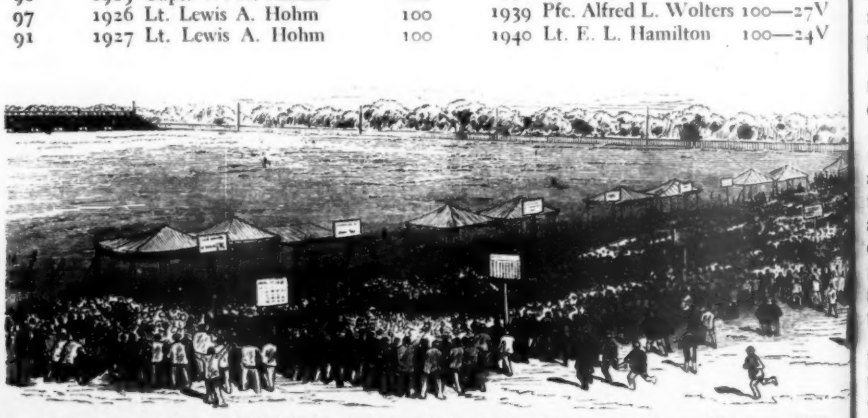
K.K.V. Kasey won Wimbledon Cup Match in 1902, 1907, 1908

Sgt. V. J. Kravitz scored 100-19V to win the 1938 Wimbledon

In 1940, Wimbledon was wo by Lt. E. L. Hamilton's 100-24

Wimbledon Cup Winners

1900	William de V. Foulke	140	1914	Sgt. S. W. Pearson	97	1928	CMG Otho Wiggs	100
1901	Captain W. B. Martin	137	1915	Sgt. J. E. Jackson	98	1929	Capt. Paul J. Roberts	100
1902	Corporal K. K. V. Kasey	146	1916	Sgt. John J. Andrews	99	1930	Sgt. L. C. Genter	100
1903	Captain W. H. Richards	91	1917	No matches		1931	Ralph F. Izard	99—19V
1904	Dr. George S. Cook	88	1918	Cpl. E. L. Branson	92	1932	W. R. Mitchell	100—12V
1905	Lt. W. A. Tewes	84	1919	John W. Hession	99	1933	G. W. Walker	100—16V
1906	Captain J. C. Semon	46	1920	Lt. L. A. Yancy, USN	100+5	1934	W. A. Lee	100—12V
1907	Captain K. K. V. Kasey	88	1921	J. W. Adkins	100+55	1935	Ben Comfort	100—17V
1908	Captain K. K. V. Kasey	97	1922	Capt. G. H. Emerson	100—15V	1936	M.G. Henry P. Crowe	100—19V
1909	Sgt. V. H. Czegka	98	1923	Sgt. Emil Blade	100—18V	1937	Cpl. H. H. Wagner	100—18V
1910	Capt. Guy H. Emerson	99	1924	Ralph H. McGarity	99	1938	Sgt. V. J. Kravitz	100—19V
1911	Capt. Guy H. Emerson	98	1925	Capt. W. H. Ashurst	100	1939	Pfc. Alfred L. Wolters	100—27V
1912	Captain A. L. Briggs	97	1926	Lt. Lewis A. Hohm	100	1940	Lt. E. L. Hamilton	100—24V
1913	Cpl. Thomas E. Vereeni	91	1927	Lt. Lewis A. Hohm	100			



First competition for Wimbledon Cup was held at Creedmoor Range, Long Island, in 1875

Pfc. Alfred L. Wolters, USMC, holds 20-shot 1,000-yard record for score of 100-27V he fired in winning the 1939 Wimbledon Match

...and the Wimbledon Match

The Wimbledon Cup Match has been fired regularly in this country since 1875, except in war years—1898, 1917, and 1941 to 1950. It has been awarded the winner of an annual 1,000 yard match since it was presented to the American rifle team which visited the British matches at Wimbledon in 1875. After a lapse of ten years, the Wimbledon Cup Match will be fired again this year on the morning of Friday, September 28, in the National High-Power Matches at Camp Matthews, California.

Until 1903, the Wimbledon Match consisted of thirty shots with any rifle at 1,000 yards, and a competitor was permitted to wipe the bore of his rifle after each shot. In 1903 match conditions were changed to only twenty shots, and a competitor was not permitted to wipe the bore during the string. The last big-bore rifle, of the type used in long-range match-shooting before the turn of the century, to be fired in the Wimbledon was the .45 Sharps Creedmoor used by William de V. Foulke in 1900.

There were only thirteen entries in the 1900 event, and the rifles used were Foulke's Sharps, one Spanish Mauser, one Mauser sporting rifle, two Ballards, two Remingtons, and six of the then-new .30-40 Krag breechloaders. In 1903 the Wimbledon had 113 entries. Annually during the '30s more than 1,600 individuals fired in the 1,000 yard event for the great silver cup.

Generally, very few special match rifles were used in the Wimbledon after the 1901 match was won by a Krag, competitors being satisfied with first the Krag and then the Springfield, although many shooters did use special match ammunition in these rifles. In 1935, Ben Comfort of St. Louis, Missouri, won the Wimbledon with a Griffin & Howe .300 Magnum rifle he had had specially made for long-range target shooting, using ammunition handloaded for him by Western Ammunition Company. From '35 to '40 the big cup was won with a rifle chambered for the .300 Magnum.

Good equipment, excellent ammunition, and a lot of shooting know-how will be required this year to equal or surpass the record score of 100-27V fired by Marine Pfc. Alfred L. Wolters in 1939.

EXTREME LONG RANGE accuracy for match target purposes necessitates sectional density, that is the ratio of the weight of the bullet (in pounds*) to the square of the actual diameter of the bullet (in inches). Long, heavy bullets drift less in wind than shorter bullets. Muzzle velocity means little. The 150-grain .30-'06 bullet at 3,000 feet per second velocity is a much poorer 1,000-yard load than the same cartridge with a 172-grain boattail bullet at 2,700 feet per second velocity, and a 180-grain match boattail at 2,650 feet per second velocity is an even better long-range load.

As late as 1900 the Wimbledon Cup was won by a perfect score with a .45-120-550 Sharps Creedmoor, against all comers, including plenty of the then-new smokeless powder .30-40 Krag rifles. The .45-caliber paper-patched slug was just an inch and a half in length and, though it started out at only around 1,500 feet a second muzzle velocity, it had the weight and sectional density to buck the wind and arrive at the 1,000-yard target. When swaged to perfect form and density, paper patched perfectly, and fired from one of the fine Creedmoor Sharps, those long heavy leaden slugs are still hard to beat for long-range accuracy even though the trajectory curve of the bullet is very high.

When the Navy wants greater range, it usually goes to a larger bore rifle to attain it. Other things being equal, larger, heavier projectiles, at a given velocity, will give greater range. Thus the big 16-inch Navy rifles will far outrange a smaller gun of ten- to 12-inch bore, and the same is true in shoulder arms.

* Obtained by dividing weight of the bullet in grains by 7,000.

Today the best 1,000-yard target rifle is the .300 Magnum bullgun, but if we had a .30-caliber cartridge that would drive a 220-grain boattail bullet at 3,000 feet per second velocity, it would in turn beat the present .300 Magnum 180-grain match load at the same velocity. Likewise a .50-caliber machine gun cartridge fired from a super-accurate barrel of proportionate weight will lick the .30-caliber loads. I have shot enough at 1,500 to 2,000 yards with a 45-inch-barrelled heavy .50-caliber machine gun to know that that big load will badly lick any .30 caliber in existence, and with a fraction of the drift in a hard cross wind from three or nine o'clock.

Mere man can stand just so much recoil and can support just so much weight during a long string of shots, so at present the .300 Magnum bullgun is the best bet. If I had a fine 180-grain boattail bullet for the .285 OKH and could drive it with the Duplex system at the same velocity as the .300 Magnum, then and then only would it beat the .300 Magnum load. I have fired enough 180-grain match boattails, swaged down by Youngberg to .285 caliber, to know that the load would badly lick the .300 Magnum both in flatness of trajectory and also in wind drift, due solely to the much greater sectional density of those long boattails in .285 caliber. In fact, ten of those fine handmade slugs went into just six inches at 800 yards for me, from a good prone position with 12-power Lyman Super Targetspot scope on a super-accurate .285 OKH bullgun. But until we have a factory-made bullet of that weight, or even 170 grains, in .285 OKH caliber, the .300 Magnum 180-grain match load still takes the cake.

Years ago, in fact as far back as 1926 and 1927, I advocated the .300 Magnum for the Wimbledon Cup Match, but folks laughed at me. It was not until I had Ben Comfort out on a sheep hunt with me, and he asked what rifle load would be best to win the Wimbledon, that I had a chance to put my thought into execution. Together we planned that first .300 Magnum match rifle, and Ben had Griffin and Howe build it and Western handload the ammunition for it. Ben won the Wimbledon with the .300 Magnum in 1935 and sent me a picture of himself drinking beer from the Cup. Since then the great Cup Match has not been won by a .30-'06.

A 180-grain boattail match bullet fired at 3,000 feet per second velocity from the .285 OKH or another cartridge of same caliber would lick the .300 Magnum on account of greater sectional density. Until ammunition companies bring out such a cartridge, the .300 Magnum will probably remain the best bet for a 1,000-yard match. In a puffy wind that will kick a .30 bullet out in the 4-ring, the .300 Magnum will still be in the black, and when you are fishing for a 20-inch V-ring at 1,000 yards, you need the utmost in sectional density, velocity, and accuracy. With the advent of 4350 Dupont powder, I worked up a match load in the '06, using selected, uncannellured 173-grain Government boattails and 58 grains of powder with Winchester 120 primers in new Western brass. Frankford Arsenal and Remington brass, both thick walled, would not handle the load well, but Western brass did the job. The stuff shot like the devil and I obtained good fives when my shooting partner was out in the 4-ring, shooting at 600 yards in a strong side wind and extreme heat of around 118 degrees on the Nampa range. Later, J. Bushnell Smith chronographed the load for an average velocity of 2,901 feet per second. No wonder it shot so well and was the finest match load I have used in the '06 when the wind was strong and puffy and quick changes occurred while you were squeezing the trigger.

Both Western and Remington have long made excellent handloaded .30-'06 match ammunition with 180-grain bullets. It will shoot. Likewise, the 1925 Palma Match stuff made by the government for the Palma Match teams would shoot. Major K. K. V. Kasey gave me a load of that stuff for guarding his ammunition dump one morning at Perry in '25 and I proceeded to shove twenty of them through the black for a 15-V possible in the 600-yard any rifle match on the following day. Straight 1925 National Match was probably the finest National Match ammunition that the Frankford Arsenal ever turned out; at least it shot steadier than any National Match stuff I have tested since that time. On the international target, I made full correction for my first shot for the record, a nine, and then ran nine straight tens for a 99 in the Prone Re-entry match. All later National Match stuff I have used seemed poor in comparison.

Just the same, the 300 Magnum 180-grain boattail match load will beat even the finest in '06 ammunition badly. At Perry in '40 I had a good Buhmiller .300 Magnum bullgun stocked without a magazine, just a single-shot match rifle by Ted Hildeman. With handloaded Remington 180-grain Palma match boattails and 67 grains of 4350 in Western cases with Winchester 120 primers, that rifle would shoot. Though there was a strong puffy left wind, one that would move a bullet 120 inches from line of trajectory, blowing on the afternoon I fired in the Wimbledon. I lost but three points. All were fours, due solely to the wind slacking off when I was squeezing the single trigger. With a set trigger, I might have gotten those three off quickly enough to beat the wind change. Even so, it would have won nothing as a Marine in an earlier relay had already fired 27 consecutive V's with a Winchester .300 Magnum bullgun and Western handloads.

In the Herrick I had the satisfaction of seeing my gun and load make a 99 with 17 consecutive V's, the first shot being a four due to elevation alone. That outfit has been killing wolves in Alaska since then.

If I were to makeup another 1,000-yard match rifle today, I would select either the .285 OKH or the .280 Dubiel, providing I could get Youngberg to swage match boattail bullets from 180-grain Remington or Western match bullets. Failing in this, I would prefer as second choice the .300 H&H, preferably with a 200-grain or even a 220-grain boattail spitzer match bullet at as high a velocity as possible to obtain with normal smooth working pressures—probably around 2,800 to 2,850 for the 200-grain bullet and around 2,750 for the 220-grain bullet.

All bullets would be carefully weighed to one-tenth grain, miked to be certain they were round and of exactly the same diameter, and preferably spun as well to be sure of perfect density of the core. Next, I would want the best in Western brass, all cases from one lot, preferably off one machine, weighed and a lot of exact weight selected for loading. All primer flash holes would be carefully checked with a drill until all were of exactly same diameter. Selected 120 primers would be used. All cases would be necked-sized down and the inside

For many years between 1907 and 1940 Camp Perry was the scene of the Wimbledon and other long-range, big-bore matches which are being fired this year at Camp Matthews, California

In 1935, .300 Magnum (second from right) supplanted .30-'06 (left) as load to use in the Wimbledon. Keith claims .285 OKH (second from left) and .280 Dubiel (right) would lick the .300 badly in the 1,000-yard Wimbledon

reamed to exactly .3065 inch while the case was still in the full length die. All case mouths would be hand chamfered so they would not shave copper from the bullets, and all charges of 4350 would be hand weighed to one-tenth grain. Then I would load the ammunition in the slow but precision .300 Magnum match loading tool made by L. E. Wilson of Cashmere, Washington. Such ammunition should shoot.

Next I would want a 30-inch heavy-barrel bullgun to weigh around 16 or 17 pounds, with a good Mauser Magnum action and a powerful and sensitive double set trigger. The rifle would be stocked to my design with no magazine or floor plate, just a Krag-type trigger guard and flat plate running forward to accommodate the front and rear guard screws, and the wood left solid full length under the receiver. After a careful job of hand bedding of barrel and action by Henrikson, Shelhamer, Ashurst, or Nelson, the stock would contact action and barrel full length and have a barrel band and escutcheon screw through the forestock. The tip of forestock would bear upward with five to ten pounds pressure.

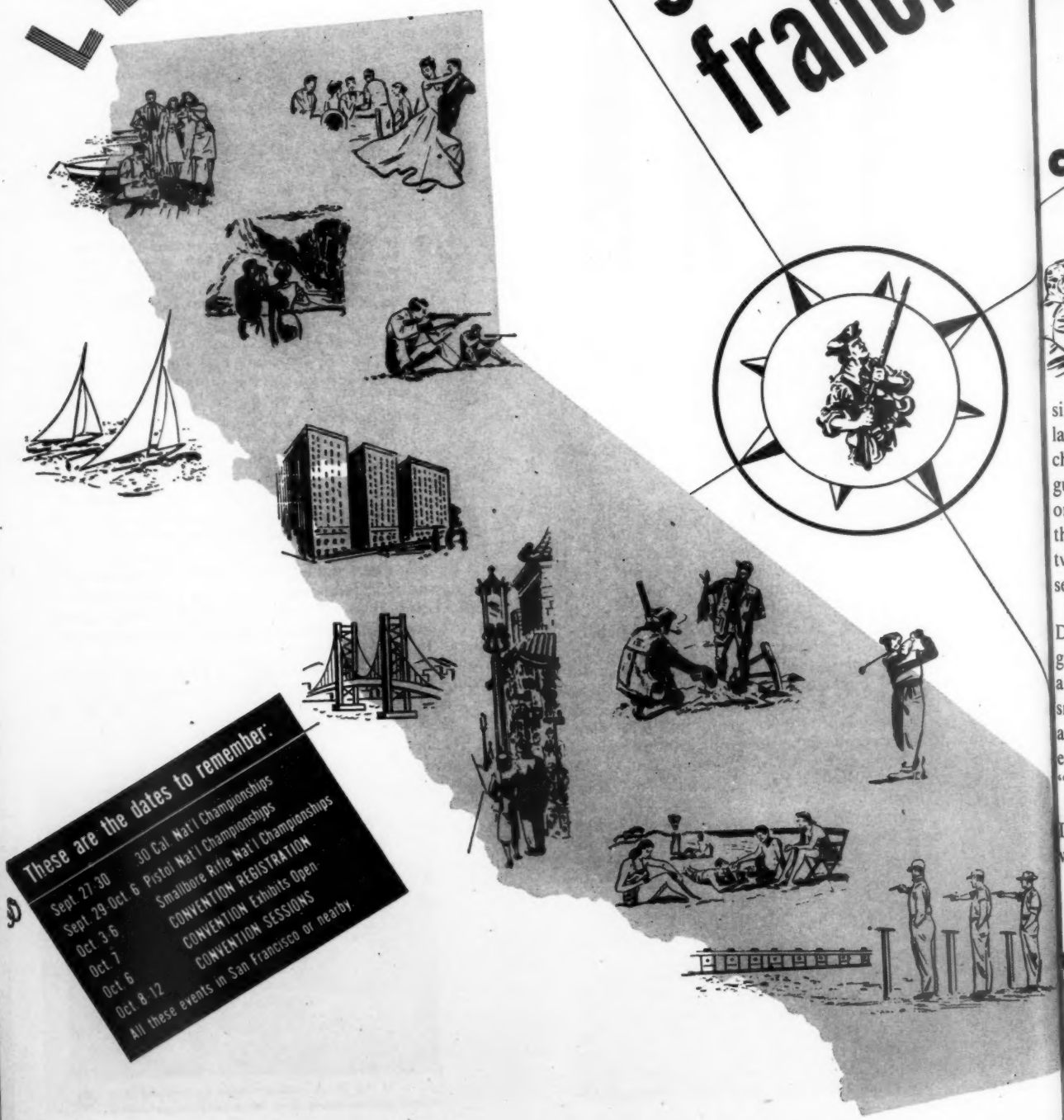
The heavy match barrel would be cut with a twist to correctly stabilize the long heavy boattail at 1,000 yards and I would not care a whoop if the bullet would still be gyrating a bit at 300 or 400 yards so long as it would go to sleep at the 1,000-yard range. For the .285 or .280 caliber with a 170-grain bullet swaged from prevailing 180-grain boattail match bullets, one would probably need a ten-inch twist. If a longer, 180-grain, .285 boattail match bullet could be secured, then a nine-inch twist would be best. For the heavy 200- to 220-grain boattail in .30 caliber, the twelve-inch twist might not prove adequate and one might then need a ten-inch twist in the .300 Magnum caliber match rifle.

Next, I would want a Lyman Super Targetspot of 10 power on the rifle that would not pick up the mirage so badly on hot days over the long range, and also a good Argus or Bausch and Lomb 20-power spotting scope focused just short enough of the target to pick up mirage and show grass movements along the range for doping.

Such an outfit would take a lot of licking in the famous Wimbledon Match, if one were lucky enough to draw a favorable relay in that great event. ● ● ●

Signs of the times—shooter with Springfield and scope on the ready line for a long-range match

LET'S GO TO san francisco



These are the dates to remember:

Sept. 27-30	30 Cal. Nat'l Championships
Sept. 29-Oct. 6	Pistol Nat'l Championships
Oct. 3-6	Smallbore Rifle Nat'l Championships
Oct. 7	CONVENTION REGISTRATION
Oct. 6	CONVENTION Exhibits Open
Oct. 8-12	CONVENTION SESSIONS

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Don't forget, featured on the 1951 Convention program will be a number of red hot question and answer forums on hunting, handloading, home gunsmithing, wildcat cartridges. That's where you'll have a chance to get your own problems answered by top experts in each special field. Never before have gun "cranks" had a chance like this.

It all adds up to a grand, big Convention you won't want to miss.

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BIG-GAME ANIM

A bighorn sheep's natural alert keen with the fact that he is found in ghest ranges, makes hunting hi mpli

the bighorn sheep

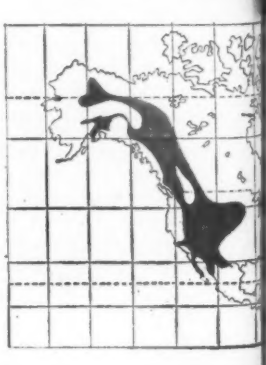
By John Moyer, Staff Associate
Chicago Natural History Museum

SOMETIMES referred to as the 'monarch of the mountain tops', the bighorn sheep is appropriately labeled. Living the greater part of life amid towering peaks of mountain ranges, these animals share their habitat with only one other neighbor—the mountain goats. In these wild, rugged heights, far above timberline, where they can easily escape natural enemies by sheer prowess of climbing, bighorn sheep are only threatened seriously by man and his high-power rifle.

Within the United States are found the Rocky Mountain bighorn (*Ovis canadensis canadensis*) and three other forms: the Badlands bighorn (*Ovis c. auduboni*), Rimrock bighorn (*Ovis c. californiana*), and Sierra Nevada bighorn (*Ovis c. sierrae*). Also found within our borders is the desert bighorn (*Ovis c. nelsoni*), along with five related forms: Arizona bighorn (*Ovis c. gaillardi*), Texas bighorn (*Ovis c. texiana,*) Mexican bighorn (*Ovis c. mexicana*), Lower California bighorn (*Ovis c. cremnobates*) and Southern Lower California bighorn (*Ovis c. weemsi*). Sheep range throughout North America is from northern Mexico and Lower California, north through the mountainous areas of the Rockies and the Sierra Nevada range to the Kenai Peninsula of Alaska.

The bighorn sheep are distributed over a larger area than any of the other American mountain sheep. The rams are noted for their massive heads, topped with a pair of stocky horns, heavy at the base and curved outward in a graceful spiral. Horns of the ewes are smaller, shorter, and only slightly curved. The body of the bighorn is large and chunky, with legs that seem short and slender for so heavy a body. They are cloven-hoofed animals. These hoofs are concave with a sharp edge which enable sheep to get a secure footing on rocks. In summer, the color of a sheep's body hair is dark brown or slate gray, with a large white rump patch and the underneath parts a dirty white. Around the eyes, ears, and nose are pale white markings. In winter, the coat is much heavier, pale gray on most animals. The average weight of the male sheep is from 150 to 250 pounds, but recorded weight of many animals goes over 300 pounds. Females are smaller in weight.

Mountain sheep live in the most inaccessible areas of our native country. They are found well above timberline, among lofty mountain crags, in areas bare of any abundant growth of grasses or plants and nearly always covered with snow.



The big horn sheep possess an amazing agility. The breakneck speed displayed by the bighorn

(Continued on page 18)

...LS of North America

...alert keen senses, combined
...nd highest, most forbidding mountain
...g hi...mplishment worthy of any hunter

Hunting bighorn sheep

By Colonel W. D. Frazer
and Courtney Wills

OPINIONS differ as to the most coveted and highly prized big-game trophies of North America. One thing is certain, however—the choice lies between the bighorn sheep and the grizzly or Kodiak bear.

When a man bags his first Silvertip or Alaskan brownie, he experiences a blood-tingling thrill that he never forgets no matter what game he may kill thereafter. That glow of achievement comes mainly from the realization that he has stalked and killed a potentially dangerous animal, and the element of risk in the hunt is added spice to the adventure.

Yet the bighorn sheep is the most prized trophy of all—not because he is dangerous to hunt, he isn't; not because he is difficult to kill, he isn't, if you can hit him; not because he is the choicest of all wild meat, but because he is the wildest, wariest, and most difficult to hunt of all American game. A sheep's natural alertness, telescopic eyesight, keenness of hearing, and acute awareness of scent, combined with the fact that he is found in the roughest and most forbidding mountain ranges, makes hunting and shooting a bighorn sheep an accomplishment worthy of the skill and endurance of any big-game hunter.

Of all the bighorn sheep that are to be found on this continent today, including the desert sheep of Mexico, the Stone or Black sheep of Northeastern British Columbia and the Yukon Territory, and the white Dall sheep of Alaska, there is none, in my humble opinion, that quite compares with *Ovis canadensis*—the original Rocky Mountain bighorn. Still, all bighorns are worthy of the efforts of any hunter, but to secure a much-coveted trophy of any size means time, money, endurance, skill and, nowadays, a liberal amount of that essential but fickle asset called luck.

Away back in 1908, I made a 17-day trip through the Wyoming mountains, vainly, to get a glimpse of a bighorn ram. It was not until 1930, however, that I shot my first bighorn, and the trophy was nothing to brag about. But inasmuch as I was the only one of a party of five who got a shot at a ram after days of hunting, I was quite satisfied.

We were in the Lillooet District of British Columbia with only one day left in which to hunt and I had decided to try for a mountain goat. An Indian guide named Bill and I headed for a crag-lined ravine some two miles distant. Crossing a long valley, we made our way to the top of the next ridge, where we rested before going on. Just as we were about to proceed the guide, who was behind me, suddenly said, "Look, look! I see sheep!" *(Continued on page 19)*

the bighorn sheep

Continued from page 16

in going up or down a mountain side is a spectacular sight. Sometimes, without a moment's hesitation, the chunky animal will leap out into space without seeming to measure distance or to see where to land. Almost always the sheep makes a safe landing and without faltering races up and up, or down and down.

Bighorn sheep roam in family flocks which sometimes number several hundred, although size of a flock usually depends upon range and food. Sheep normally have a home range and feed and bed down within limits of it. Sheep living in northern ranges will move twice each year, between summer and winter ranges, while Desert bighorn may stay in the same range throughout the year. Sheep live upon grass and the low herbage growing in their ranges, but those which live in drier regions, where grass is sparse, have become browsers, living off shrubs found in those areas. They will also feed upon the buds of spruce, fir, aspen, and similar trees. In winter, when heavy snows cover feeding grounds, sheep will seek shelter in nooks among the rocks and subsist in spite of storm and drifting snows, though often having to paw through seven or eight inches of snow to get at the grass growing underneath—sometimes with difficulty when the snow crusts over.

During the summer months, rams are found together, but late fall in the Rockies, about mid-October, they suddenly become interested in ewes. By mid-November the rut is in full swing, rams battling with one another all day long and chasing ewes. Battles between two evenly matched rams are spectacular to behold. Seeming to follow a pattern in battle, two combatants will at times stand side by side, then walk about fifteen or twenty feet apart, face one another and—seemingly at a given signal—rear up on hind legs, charge forward, and still nearly upright, bring their heads together with a terrific crack of horns that can be heard some distance away. The impact dazes them, but in an instant they will 'square off' and repeat the head-on collision. After several impacts—and some battles may last for hours—the sheep usually walk away, at times in company with one another.

Dall or white bighorn sheep inhabit the mountains of peninsular Alaska and the Yukon Territory. Though the smallest of American mountain sheep, hunting them provides great sport

Bighorns belong to the fickle set and do not, as a general rule, attach themselves to one female. Some older rams will be found with several ewes in the 'harem,' while others go from one female to another during the mating season. The gestation period is about six months. The ewe seeks out a sheltered spot, free from cold winds and late snows, to give birth to her single offspring. Multiple births are occasional.

The mother sheep is constantly on the alert to protect her new-born from the golden eagle, its only enemy at this time. The lamb at birth is small enough to walk beneath the mother and nurse often, twice or more in an hour. When about a week old, the lamb follows the mother closely as the two search for food. Even at this early age, the lamb will try to feed on a healthy diet of small flowers and tender shoots of grass, milk, green grass and plants. The lambs grow rapidly. The mother sheep will now join other females and young in groups often numbering fifty or more to one flock. Young lambs are very quick on their feet and able to keep up with the mothers in speed when the occasion demands.

Rocky Mountain bighorn are found from southwestern Alberta through the Rockies to Northern New Mexico. They are distinguished by pale colors on nose and ears

During the winter months which follow, the lambs stay with the mother although they are nearly three-fourths grown and have the heavy coat of an adult.

There are many causes for the slow, steady decline of the sheep, but a fair share of the blame falls again to man for their reduced numbers. According to latest reports, bighorn sheep have been reduced to 8,900, found within the United States, a figure that should be increasing instead of decreasing.

The record bighorn sheep head, taken in British Columbia in 1920, has these measurements: greatest spread—23⅞ inches; length of front curve of right horn—49½ inches; of left horn—48¼ inches; circumference at base of the right horn is 16 inches, left horn 16⅛ inches. The record head is now in the Dr. Henry M. Beck collection. The second-place head was taken in Alberta, Canada in 1918. Greatest spread is 23 inches; length of front curve of right horn—46¾ inches; circumference at the base of right horn—15½ inches. It is in the National Collection of Heads and Horns. ◆ ◆ ◆

Bighorn sheep are hunted high in the mountains, in ranges frequented by only the mountain goat

Hunting bighorn sheep

Continued from page 17

Turning, I looked past his pointing finger and saw profiled against the skyline of a ridge a mile to the north a toy-like file of sheep slowly climbing upward toward a cone-shaped peak. As they disappeared behind some rocks, we saw one last gray form on the crest for a full moment. Sure that he was a ram and that we could see curved horns silhouetted against the sky, we made a quick decision as he turned to follow the ewes.

Retracing our steps in the valley, we eventually clambered up to where we had last seen the sheep. It was a long breath-taking, muscle-tiring climb to the top of that mountain spur and we relaxed for a few moments before taking a look. To our surprise we found that we were literally on a ridge pole of the world, not over twenty feet wide, with a precipitous slope dropping almost perpendicularly into the opposite valley. We could see no sheep but we were satisfied that the band had made its way up the ridge and was probably hidden by the rocks and folds of the ground.

We crawled slowly upward in the direction the sheep had taken, expecting to find them as we peered cautiously over each rise. Luck was with us—a strong wind was blowing down the ridge for which we were grateful. As we bellied our way forward, we could see that the sharp, steep slope of the mountain cone was getting closer and closer. Still, there were no sheep to be seen. As we neared a last little hump in the ridge, Bill, who was in front, crawled between two large rocks, raised his head slowly to peek over the top and instantly lowered it again. I knew he had sighted game. He snaked his way backward and motioned me to take his place. Crushing my service hat flat on my head, I wormed my way to the spot between the two rocks and slowly raised myself on my elbows until I could see into the slight depression ahead.

Fifty yards in front of me stood two large ewes gazing in my direction, while two lambs frolicked nearby. Several other ewes were lying down with only their horns or heads visible. Crouching back out of sight, I shoved my rifle in front of me and, after a pause to curb my excitement, I peeked again. Only one ewe was standing now and two others were beginning to graze on the tufted grass among the rocks. The ram was nowhere to be seen. The band was apparently unaware of our proximity and I waited fully fifteen minutes in the hopes that the Daddy of the harem would show himself.

Like the lull before the zero hour in battle, everything was serene. Then things happened quickly. A magpie, flying low over the ridge, passed so close to us that he apparently became startled by our strange presence and let out a shrill squawk which brought all the sheep to their feet in an instant, and a dozen pair of eyes focused in our direction. Then, as though on signal from the leading ewe, the whole group started to move very slowly toward us. As the leaders advanced, others followed from the depression behind, until nineteen ewes and lambs, overcome by curiosity, were but a score of yards away and steadily closing in. "Where is that ram?" was the question that kept romping through my brain as I watched the approaching flock, wondering if female mountain sheep ever used their sharp horns in a charge. When the ewes were almost on top of me, and I was wondering what to do next, the boss of the herd appeared out of the draw, unconcernedly chewing on a bunch of grass as he came forward to see what all the fuss was about. He paused between two fat ewes, raised his head, and looked me squarely in the eyes. He was a full grown ram but with only a five-year set of horns. Yet, as he stood outlined against the sky and mountain peaks, he seemed a majestic figure. As the rifle cracked, he fell where he stood while the band stampeded to the rear across the sheer

Desert bighorn, slightly smaller than the Rocky Mountain sheep, range from southern Nevada into Mexico

face of a rock slide with a speed the like of which I had never seen. Lady Luck was certainly with me that day and I was very happy.—(W. D. F.)

It is commonly believed by those who have not done much sheep hunting that the majority of shots at sheep are long. They are not. I have made a few long shots at rams, but the majority have been within 200 yards and a number within 100 yards. It is almost always possible to stalk within easy shooting distance of sheep if a man knows how to hunt them. The majority of experienced sheep hunters will agree that in most instances locating and stalking the sheep is about 90 percent of obtaining a trophy, whereas the actual shooting is about 10 percent. I am a pretty good shot but not exceptional game shot. I have seldom fired a shot which did not hit the ram I was shooting at, and never in my experience have I lost a wounded sheep.

My first sheep rifle, because I shot my first ram with it, was a Waffenfabrik Mauser carbine with a Lyman 1-A cocking piece rear sighted chambered for the 7 mm. Mauser cartridge. I was hunting in a big limestone range in the Mexican state of Sonora called the Sierra del Viejo—the mountain of the old man. A couple of days before I drove in by the way of a ranch called Pozo Aserno, or Aserno's well, and a big Papago cowboy told me that a week before he had seen some *machos cimarrones* (bighorn rams) just north of the highest peak in the range. I drove the rest of the way to the foot of the mountain and camped by an old mine. The first day I saw only a few ewes and lambs, but early in the morning of the second day I hunted, I got a bunch of three rams in the glasses and after a stalk of about two hours I came over a ridge near a sharp outcrop by which I had marked them. When I poked my head over, all three rams were bedded within 50 yards. I simply put the gold bead of the little 7 mm. behind the shoulder of the largest ram, squeezed the trigger, and that was that. When the 139-grain Western open-point bullet struck that ram, he made a convulsive lurch to his feet, then fell, and lay still. I shot two other rams with my 7 mm. and then I got rid of it.

The rifle had a Mannlicher-type stock with the grain running parallel to the barrel, and every time the moisture content of the air changed, the wood would warp against the barrel and change the point of impact.

My next sheep rifle was a .30-'06 NRA sporter completely unaltered except that it was fitted with a Hensoldt 2¾ power scope on a Griffith & Howe mount that was so high the Lyman 48 receiver sight could be used under the scope. At the time this was considered to be a great advantage, but all the time I had the rifle I never once used the iron sights with the scope still on the rifle. Actually, I never used the scope much because I did not trust that high mount. Whenever I put the rifle in a saddle scabbard, I took the scope off and put it in a little belt case. I was always jumping off the horse and shooting a deer, a coyote, or something of the sort, and forgetting entirely about the scope.

I learned a lesson from my .30-'06—that it is easy to get a rifle that is too heavy. With the scope and mount the sporter weighed about 10½ pounds, magazine empty and without sling. I am a fairly husky man, but carrying that heavy rifle around over the hot, rugged sheep mountains in Mexico made me long for a lighter rifle.

In Alberta, on my first hunt for the Rocky Mountain bighorn I took the .30-'06 and a featherweight .250-3000 Model 99 Savage with a 2½ power Noske scope as a spare. I shot a ram with the .250-3000 at about 300 yards. That's long range for a shot at a ram, but the stalk went astray. The big ram I was after had a single companion. My guide and I thought we had him dead to rights, but in the very last stages of the stalk we came around a point and ran right into a bunch of four young rams. They decided we were up

Rocky Mountain bighorn near Banff, Alberta, Canada

to no good and away they went, running in the direction of the rams we were after. There wasn't anything for us to do except to run as fast as we could up a ridge so we could get a shot at the big ram when he took off. I had hardly got set when I saw the big ram and his companion come into view running directly away up a ridge and about 300 yards away. I was in a good sitting position, and I started shooting. The ram started limping on the second shot and went down on the fifth. I found later that he had been hit four times.

This was in the days when the 100-grain load for the .250-3000 was relatively new. The velocity, I believe, was about 2,800 feet per second. Examination showed that the 100-grain bullets had hardly opened up at all at that distance. It showed me that the .250, while an excellent cartridge for close range shots on sheep—to 200 yards, let us say, wasn't much good for shots at the longer ranges.

The .250 is too light for the northern mountains, partly because it is none too good for the occasional long shot and partly because the sheep hunter spends a lot of time in grizzly country, and the .250 is simply not a grizzly rifle, no matter who is behind it.

In spite of the fact that I have always been a gun enthusiast I was relatively late in coming to the .270. I'll never forget the first ram I killed with a .270. I had been hunting in the Pinacate in Sonora with a Mexican named Jesus, a general handy man I had picked up in the little border town of Sonoyta. We had been out climbing around for a week, and although we had seen several rams, I had not fired a shot because I had not seen a head I wanted. There are no deer around the Pinacate, and at that time of the year no antelope, so we were existing on jerky and bacon to Jesus's disgust.

Rather late in the afternoon, we came to the edge of an enormous crater—one of the many that fill this volcanic area. I glassed the place for about ten minutes and saw nothing. Jesus asked for the binocular and was using it while I lay there, looking at the fantastic scenery—rough and tumbled lava fields, black cinder cones. It was spring. Every ocotillo was tipped with a scarlet banner of bloom, and the cholla was bright with purple flowers. Beyond the rim of the crater, the Gulf of California, edged with a narrow strip of snow white beach, thrust up against the sky deeply blue and as flat as a table.

Suddenly, both of us detected a movement and a lone ram got up on the opposite side of the basin. He had been screened by a dwarfed *torrote prieto* tree, and we hadn't seen him. Apparently he had been casing us and the more he watched us the more nervous he got.

"Mira, mira, un macho cimarron!" Jesus shouted. "Tiene cuernos muy grande!" (Look, look, a big ram with large horns!)

"Give me the glass!" I said in Spanish.

"No, shoot before he runs farther!" he said.

As the ram climbed out of the crater, I put the crosshair about two feet over the top of his horns and squeezed one off. Down went the ram, and an appreciable time later I heard the bullet go *thunk!*

It took us a good half hour to go to the ram, and when we got there, we found the bullet had taken the ram right between the hams and had gone clear through the abdominal cavity to mush up the right lung. Sad to say, the ram didn't have much of a head. The outside curl was only 33 inches, and 8 or 9 inches had been broomed off each side. Battles of other years had knocked big chunks out. The ram was very old, but just how old there was no way of telling because the horns had been broomed past the two-

year-old bump. What horn was left showed eight annual rings, and I would guess the old timer to have been about twelve. As often happens with old, decadent rams, he had gone off to live by himself, and the sign showed he had been in the basin for a long time. Along the top of the crater and on the other side there was a fine stand of Indian wheat, which he had been eating. He was hog fat, the fattest ram I have ever seen anywhere.

"I thought you said he had very big horns!" I said to Jesus.

"I wanted to eat fresh meat tonight!" he responded. Then he added: "How good that little rifle you have. It has much strength!"

Jesus was nothing if not a thrifty fellow. For the next couple of days he did nothing but care for the meat and render out the fat. Believe it or not, he just about filled a 5-gallon oil can with melted tallow. I'd come in hot and tired, fry a couple of slices of crisp bacon, pan broil a couple of thick mountain mutton chops, then dip into the pot of frijoles Jesus always had on the fire, dig a baked potato out of the ashes, and go to it.

We were camped under a big palo verde tree that was brilliant yellow with bloom and filled with myriads of desert bees. Days were hot but when the sun went down the desert cooled off until the nights were so chilly as to make a wool shirt welcome. The last glow of the sun would die out over the gulf, and the swift darkness would brighten our ironwood fire. Out in the night a coyote would howl, sleepy quail along the arroyo would cluck drowsily, and the mocking birds would burble with brilliant liquid melody.

I remember another very long shot I made with my .270, but it was thousands of miles to the north, in the sub-arctic instead of the sub-tropics. My pack train had been winding along the bottom of a canyon in northern British Columbia by the banks of an unnamed creek that is a tributary of the Bessa River. We had seen a good many sheep tracks along the sands of the creek, but so far only some ewes and lambs. Suddenly my guide said:

"Look at those big rams!"

I followed his finger and lying on a narrow ledge 500 feet above us and well down stream were four rams, all good. One was a beauty. As I sat there looking at the rams with a glass, they got up, stamping and watching us nervously.

"I think that one second from right is worth taking," I told the guide.

"Hell," he said, "you couldn't hit him. He's a quarter of a mile away."

I walked over to the horse and pulled the .270 out of the scabbard. I got my arm into a tight sling, squeezed one off. All the rams began to run along that narrow ledge, and a moment later I could hear the hollow thump of a hit in the guts. I shot again, and I didn't lead enough, but again I could hear the tell-tale hollow thump.

I was about to shoot once more when the ram began to wobble, lost his footing and fell. Halfway down he hit a projection, bounced out, described a slow curve, then lit right in the middle of the creek with a splash that sent a geyser of water forty feet into the air. That ram was really busted up but we saved the head and scalp and most of the meat.

Don't get the idea that the last two rams are typical of sheep hunting. They aren't. Most shots are within 200 yards, and often they are much closer. I have killed four or five within 50 yards!

My specifications for a sheep rifle would be about like this: Caliber .270, .30-'06, or 7 mm. Weight between 8¾ and 9½ pounds. Barrel length 21 or 22 inches. Scope a good 4-power.

Of cartridges, the .270 is easily in first place, with the .30-'06 with the 150-grain bullet just behind. I have tried the .300 Magnum, but I couldn't see it killed sheep any better than the .270 and I couldn't find any load that shot as flat. The rifle I used was a Super Grade Model 70 Winchester. It was too heavy and the barrel was too long. Anyone who has climbed around in rough sheep country doesn't want a long barrel on a rifle, as when he has his weapon strapped to his back the long barrel may catch on rocks and throw him off the cliff. (C. W.) ◆ ◆ ◆

What About The Featherweights?

By Maj. Gen. J. S. Hatcher

THE RECENT decision of the Air Force to buy some lightweight revolvers has caused a flurry of activity in the field of aluminum-alloy handguns, and we have done so much shooting lately with these very handy little numbers that we feel almost like experts on the subject.

The photographs show some of the various models tested by Al Barr, Lt. Col. F. S. Allen of the Air Force, and myself during a recent day at the range. First on the program was not a lightweight, but a regular .45 Model 1911 which had been accuratized. Before it was worked on, this gun was never able to give a very good account of itself on the range as far as accuracy was concerned, so it was sent off to be given the works by Alton S. Dinan, Jr., of Canaan, Connecticut, and this was the first opportunity to try it out since its return. The results were unmistakable. Before treatment the gun was definitely poor, but all three shooters got excellent groups with it in its new and improved condition. An interesting comparison was the shooting of a very ancient .45 Model 1911, serial No. 6469 (No. 2 in the illustrations). This old-timer had been packed away ever since the close of World War I, and it gave groups almost equal to those of the accuratized modern version.

Two other guns tried at the same time were a Colt Commander .45 (No. 3), and a Colt Commander in 9 mm. Luger caliber (No. 1). The .45 Commander weighs only 27½ ounces as against 39 ounces for the regular .45; but surprisingly, it does not seem to kick one bit more than the heavier gun. And the sample that we had was very nearly equal to the accuratized gun in accuracy. My first shot with this Commander was a pinwheel in the ten-ring of the 25-yard target. We might state at this point that all shooting was done on NRA 25-yard targets, and done under rather difficult conditions, as work behind one part of the range backstop made it advisable to shoot diagonally across the range, thus adding a yard or two. Moreover, a steam shovel would periodically raise its ugly head above the backstop, and trucks were rambling past the firing point at short intervals. Sighting conditions were good, as the sky was overcast, but at times it was so windy as to make aiming very difficult.

The 9-mm. Commander (No. 1) was definitely a much more pleasant gun to shoot than the .45, but also was less accurate.

The shooting done with the regular .45 and the lightweight Commander had, as stated above, given the impression that there was little or no difference in the recoil of the two guns, so we decided to check this with a sort of blindfold test. The shooter took his station up near the backstop, so he could shoot quickly without looking, and an assistant with two loaded guns handed him first one, then the other, at random, so he could fire and compare recoil with nothing else to think about. It would have been ideal if the shooter had been able to fire without knowing which was which, but that was impossible, as the difference in weight gave the show away at once. However, it was a good comparison of recoil, and the results were definite. All three shooters agreed that there was no noticeable difference in recoil between the Commander .45 and the regular Model 1911.

In the aimed shooting it was difficult to compare scores on account of the fact that there was no opportunity to sight-in the guns or correct the sighting in any way. It happened that for me the Commander shot just about center. My first score was 91. Colonel Allen had a better group, but it was high and left. He regularly shoots any gun high left unless the sights are corrected for his hold. His excellent group would have scored 97 if it had been centered. We decided, therefore, that the best indication of relative accuracy would be the mean radius of each group and, for an added comparison, we recorded the score as it would have been if the group had been reasonably centered. Remember, we were comparing guns only, not shooters, and the group size, not its location, was the important thing.

In testing .45 Model 1911 (2) against .45 Colt Commander (1) and Colt Commander in 9 mm. Luger (3), no noticeable difference in recoil of .45 Commander and .45 1911 was apparent. 9 mm. Commander was more pleasant gun to shoot but was less accurate

The lightweight Commander guns have an aluminum alloy frame and a steel barrel and slide. Part of the reduction in weight is accomplished by shortening the barrel and slide ¾ inch. The barrel of the M1911 is five inches long, and the sight radius is 6½ inches. For the Commander, the barrel is 4¼ inches long and the sights are only 5¾ inches apart. This reduction in the barrel and sight radius evidently does not reduce the accuracy to any important degree.

For all the shooting we did in our limited test, the averages were as follows using ordinary GI .45 ammunition, and 9-mm. issue ammunition made for use in submachine guns.

Gun	*Average score*	*Average mean radius of group*
Accuratized M1911	94	1.9 inches
Commander .45	91¼	2.4
Commander 9 mm.	87½	3.2

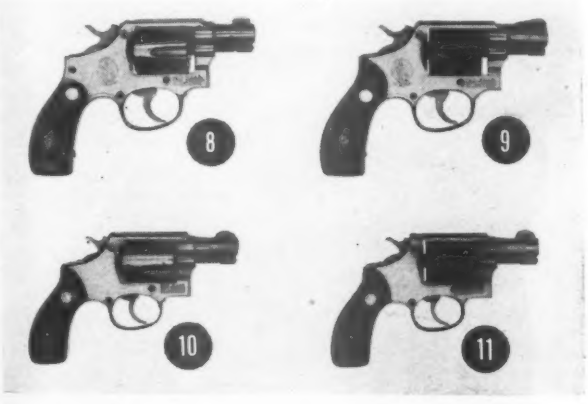
Before Korea, there was a strong feeling in our services that the .45 semiauto is just too much gun for the average GI, and that we ought to go to a 9-mm. Luger as the service sidearm cartridge. Remember, we had a .38 revolver at the time of the Philippine Insurrection in 1901, and the experience of our troops in that campaign decided the Army that the .38 was too small in caliber and lacked stopping power.

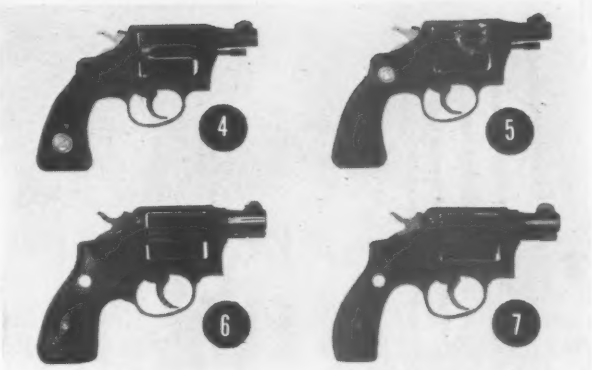
Back in those days some of the tradition of the old West still persisted, and the average American wasn't as unfamiliar with handguns and as afraid of them as is the case today. The .45 seemed just right.

However, the thought has grown and flourished in recent years that the Army .45 is a gun that the average American just can't learn to shoot, and many authorities have been willing to settle for something lighter, on the order of the 9mm. This was the opinion that came out of Europe at the end of the war, but it was not shared by many of the troops that fought in the Pacific jungles where one might wake up any night with a dozen or so Japs right on top of him. In that situation it would have been mighty difficult to trade a P-38 for a good old .45. I'm not guessing about this one. I was there.

Now again we have heard from a number of our friends in Korea that the .45 is enjoying a big increase in popularity, and is riding the crest of the wave again. As for me, I'm already sold on the .45 as a heavy sidearm and I'll take the lightweight version every time. The Commander will do anything that the old M1911 will do, and will do it with less burden to the user.

The ten revolvers shown in the photos are some of the models that we have been helping Lt. Col. F. S. Allen to test for possible use as an aircrewman's sidearm. Obviously





Two light Colt Detective Specials (4 & 5) and two S&W Military & Police revolvers (6 & 7). No. 4 has steel barrel and cylinder, and aluminum alloy frame. Nos. 5, 6, and 7 have cylinders and frames of aluminum alloy and other parts of steel

such a handgun should have the very minimum of weight and bulk, and the aluminum-alloy, short-barreled .38 Specials seem ideal for such use.

All these guns have 2-inch barrels and sight radius of about 3½ inches. There are various combinations of steel and aluminum alloy. Some are all steel; some have steel barrel and cylinder and alloy frame; some steel frame and barrel and alloy cylinder; and same have steel barrel and alloy frame and cylinder. In all models the barrel is steel, as are the hammer, trigger, springs, screws, and other small working parts.

All firing with these revolvers was with .38 Special full-jacketed full-factory loads, 158-grain bullet at 870 feet per second. All aimed fire was on the NRA 25-yard pistol target, at a distance of about 27 yards. Besides the aimed fire, quite a few shots were fired double action from the hip at a range of about 10 feet.

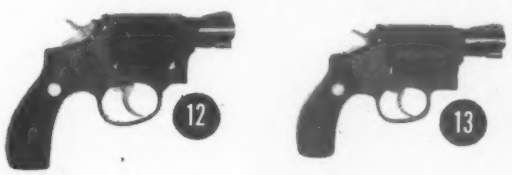
Altogether about five hundred shots were fired on this one day by three shooters, and none of the shots would have missed a man at the target position.

The two revolvers numbered 4 and 5 are lightweight Colt Detective Specials. Both hold six shots. Number 4 has steel barrel and cylinder and alloy frame, and weighs 15.3 ounces. Also, it has wooden grips of the regular Colt shape.

The other Colt (No. 5) has both cylinder and frame made of aluminum alloy, and has wooden grips made to the designs submitted by Colonel Allen. The gun weighs only 11¾ ounces, and is one of the designs being purchased in limited quantities for experimental use by the Air Force. This particular sample has now been fired over 1,000 rounds of full-factory loaded .38 Special, and is still tight and accurate.

The Smith & Wesson revolvers included two variations of the 2-inch barreled six-shot *(Continued on page 47)*

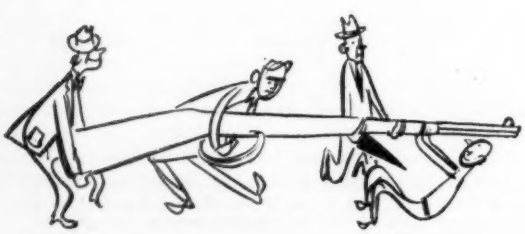
Thin-framed S&W Military & Police (8, 9, 10) and Chief's Special (10, 11, 13). Nos. 8 and 10 are all-steel, 9 and 11 have aluminum cylinders, 12 and 13 aluminum frames and cylinders



David R. Gascoyne, official of U. S. Fish & Wildlife Service inspects a collection of outlawed weapons in the Washington headquarters. Most weapons were confiscated in the field

Close up of percussion mechanis an outlawed punt gun. These were often loaded with scrap

PUNT



Alan Souder, U. S. Game Management A in charge of the Del-Mar district, dis an old English punt gun that weighs pounds and fires two pounds of shot. The has killed 79 ducks with a single

Photographs by
Sid Latham

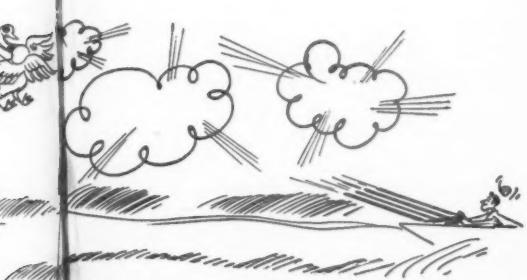
This is the way an illegal hunter uses a punt. He drifts with the current until he comes upon a flock of ducks and opens fire in the middle of the flock

GUNS

In America and in England during the last century, the use of large-gauge or multi-barrel shotguns mounted on small, flat-bottom boats, killed game in large quantities and sold it in the market.

With a gun mounted in his punt, a market hunter would drift silently with the water, occasionally using a pole or oar to steer himself through shallow, near-shore waters in search of a flock of ducks at rest. Carefully and quietly moving as close to the game as possible, the hunter would open fire at pin-point range with his improvised cannon.

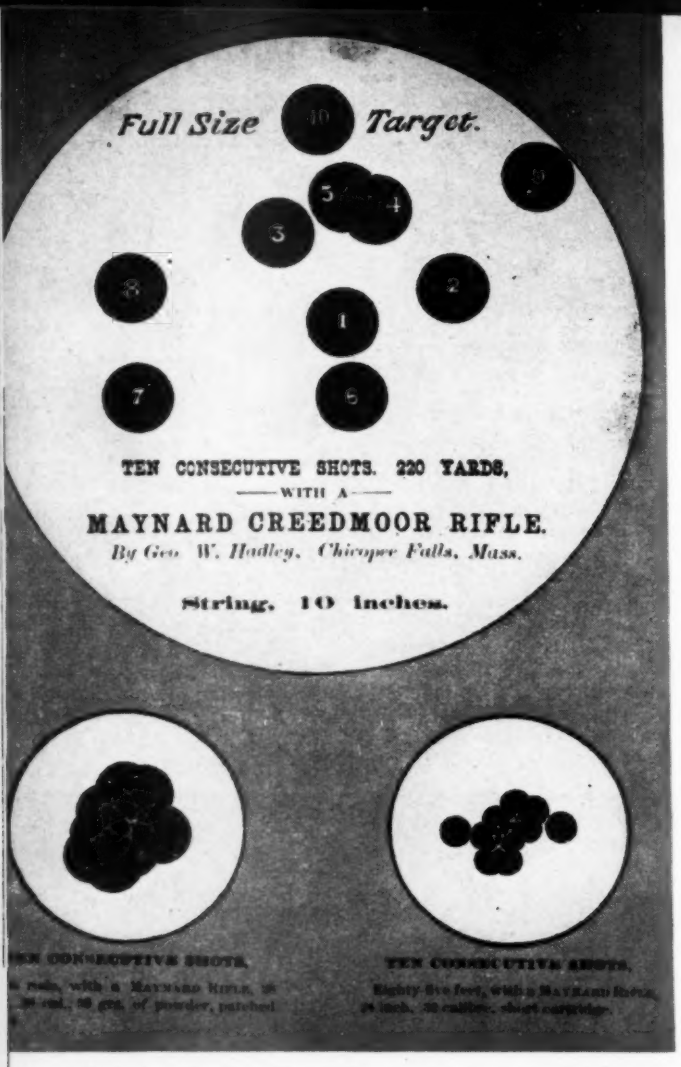
In 1918, the Migratory Bird Treaty took the initial step toward the control of hunters and hunting methods in this country. Since that date guns larger than 10-gauge have been outlawed, shooting seasons established, and wardens and Wildlife agents assigned to protect wildlife. ◆ ◆ ◆



Multi-barrel punt gun mounted on a punt ready for use

When this oversized punt gun is fired, the boat slides back in the water at least 15 or 20 feet, depending on the charge of powder

A miniature edition of the big ten-barrel gun. The firing pan trough, covered with a piece of asbestos to protect the hunter, is filled with powder leading to the barrels, and one charge sets off all four barrels



These three groups calling attention to accuracy of Maynard rifle at various ranges appeared on a circular of Maynard Arms Co. in 1880s

MAYNARD

By Lt. Col. B. R. Lewis

FOR THE AMERICAN sportsman and shooter of sixty or seventy years ago, the name Maynard had an intimate association with fine shooting. The Maynard rifle was one of many excellent single-shot arms then available—the Sharps, Ballard, Remington, and other actions being well known. Maynard, however, was one of the first to present to the shooter a highly diversified choice of calibers and loads, including shotguns as well as a series of rifles ranging from .22 to .62 caliber. The Maynard action varied little during the years of its popularity, but the cartridges developed to shoot in it changed radically in detail. Their design and development are interesting, for they bridge the gap between the last of the muzzleloaders and the first modern cartridges.

Edward Maynard, a dentist of Washington, D. C., was, like many of his profession, a capable mechanic. Gifted as an inventor, he turned his ingenuity toward improvement of firearms mechanisms and ammunition. His first significant invention was a magazine priming device for small arms. In 1845 he sold the idea to the United States Army and installed a few of the locks on Army muskets. The mechanism used a narrow tape containing priming pellets very similar in general to the arrangement in the familiar cap pistol. The idea met with favor, and in 1855 the Maynard primer was standardized for the United States rifle, rifled musket, and pistol.

Maynard then began work on systems for converting muzzleloading weapons to breechloaders and became interested in developing cartridges for use in converted arms. In 1856 he took out his first cartridge patent (No. 15141), covering a bullet contained in a metal case having a rear aperture closed by waxed paper (see No. 1, Fig. I). The primer was external (either the conventional percussion cap or the Maynard tape primer) and was fired on a nipple carried by the breechblock. A shallow brass cup was provided to cover and protect the end of the cartridge in handling. Number 4, Figure I, shows a somewhat similar steel cartridge made for the .58-caliber service bullet.

In 1858 Maynard entered an Army competition for methods of converting arms to breechloaders. Sharps and Morse were among others who submitted arms for this trial. The Maynard conversions used three general types of cartridges. One (No. 5, Fig. I) had a rounded base and was made in one piece. A second was similar to the 1856 type but had an arm added to the base for extraction. This cartridge was made in two sizes, .69 caliber for rifled muskets (No. 7, Fig. I), and .58 caliber for converted rifles (No. 8, Fig. I). A modification of this type used a thong in place of the arm (No. 6, Fig. I). A third style was intended for use in smoothbore muskets with round ball, buckshot, or buck-and-ball loads. A longer case was needed to enclose the projectile. The cartridges shown in numbers 2 and 3, Figure I, are this sort, the former having a double head enclosing a wad. Some of these are shown in Maynard's firearms patent No. 30537.

In 1859 Maynard patented a cartridge (No. 22565) which was to become familiar to the users of Maynard carbines during the Civil War. It consisted of a perforated disc soldered to a brass shell (No. 3, Fig. II), and was fired by a nipple and cap. At about the same time, he invented a breechloading action to use this new cartridge. At first, the Army bought only a few carbines in .50 caliber, but during the war many thousands were purchased. Meanwhile Maynard had licensed the Massachusetts Arms Company of Chicopee Falls, Massachusetts, to make and sell all commercial arms using his action or primers, and in the years just before the war the primers were applied to Sharps, Jenks, and Greene carbines as well as to the Maynard arms.

The Doctor added several new cartridge patents to his score in 1863. The first (No. 39823) provided for attaching a percussion cap to the shell by a thong which also served as extractor. Another (No. 40112) showed a wire attached to the head for extracting (No. 9, Fig. I), or a smaller wire loop with a cord (No. 10, Fig. I).

During the Civil War, Maynard carbines were used by both sides. In addition to the regular .50-caliber Maynard cartridges, the Union Army used many 'Poultney Patent' cartridges, made of alternating layers of brass foil and paper. In the Confederacy, cartridge machinery being scarce, paper ammunition was used in the Maynard arms. Besides the .5 caliber, the CSA used a 'light Maynard' carbine, which was variously described as .35 and .37 caliber.

Arms and Ammo

Maynard roll primer was adopted for use on U.S. Army small arms in 1855

A WASHINGTON DENTIST RESPONSIBLE FOR AN IMPROVEMENT OF CIVIL WAR WEAPONS GAVE HIS NAME TO ACCURATE RIFLES AND AMMUNITION

In 1865 the Massachusetts Arms Company brought out an entire line of Maynard arms, the model 1865 having the basic Maynard action. This had been used in the earlier carbine and remained essentially unchanged in the two models that followed. These arms provided for the first time a good general-purpose action to which the sportsman could fit, interchangeably, various rifle and shotgun barrels to suit his taste and game.[1]

Though a variation of the .50-caliber cartridge was made at Frankford Arsenal, a front-lubricated cartridge with a longer case, I have not seen a specimen. I believe that the .50-caliber shotshell was intended for use in the rifled arms of that caliber. The two larger sizes were used in conventional shotgun barrels.

In 1867 Maynard made the last patented improvement on his basic cartridge (No. 61225). It consisted of a fulminate primer in a two-piece detachable cup, made to fit over the

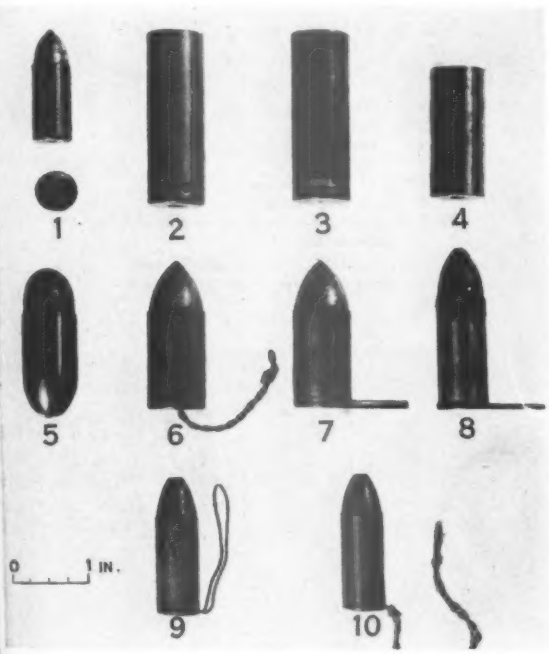


Fig. 1: EARLY MAYNARD EXPERIMENTAL CARTRIDGES

Number	Caliber	
1	.40	First type, with cover
2	.69	Double head, for smoothbore musket
3	.69	For smoothbore musket
4	.58	Steel, for rifle
5	.69	Round base, for converted musket. 1858 trials
6	.69	Thong extractor, for converted musket. 1858 trials
7	.69	Arm (mule-ear) extractor, for converted musket. 1858 trials
8	.58	Arm extractor, for converted musket. 1858 trials
9	.50	Wire extractor
10	.50	Wire loop with thong

As long as the Maynard single-shot rifle (above) was manufactured, the type of action (left) never varied. With the marketing of repeating rifles, Maynard ceased manufacture

[1] *In 1857 Morse offered an action with interchangeable barrels in calibers .50 rifle, .54 carbine, and .69 (16 gauge) shot. However, production did not exceed 100 arms and the action was never popular, nor was its rubber-based cartridge satisfactory.*

base of the model 1865 ammunition, all sizes of which had the same head diameter. The primer, which made the cartridge self-contained, is number 7 and 8, Figure II.

Further modifications facilitated extraction, priming, and reloading. An intermediate type was made which incorporated a solid and heavier head, still retaining the flashhole of the model 1865 (No. 2, Fig. IV). This soon led to the model 1873 line, which used the then-new Berdan primer in 'Parker's Patent central fire reloading cartridges'. With this model, Maynard arms provided a choice of cartridges then unexcelled by any competitor. They were still made of two parts soldered together near the head.

The third and last series of Maynard cartridges was made for the model 1882 arms. They used cases of solid or one-piece construction, made for either the Berdan or Winchester primer, as desired. The purchaser also had the choice of conical or cylindrical lubricated bullets of characteristic Maynard shapes, or of paper-patched bullets. Figure V shows some of the lubricated bullets. As the patched ball was not seated as deeply in the case as were the other types, the latter required a longer case for the same powder capacity. For this reason, variations of case length are found in what are nominally identical cartridges. At one time the factory mentioned in a printed price list that old shells of certain sizes could be returned for cutting to the proper length to fit rifle barrels then being furnished.

Figure IV shows the types of heads used on Maynard cartridges. Number 1 is the model 1865, number 2 is an intermediate type with solid head, and number 3 is the model 1873. The No. 3 had two grooves to accommodate a nipper-like tool for removing the Berdan primers after firing. Number 4 shows the model 1882 cartridge with Winchester primer. Berdan primers were also available in this model at the buyer's option.

Towards the end of the Maynard production, the rifles were chambered for other brands of popular ammunition such as the .25-20. By the early 1890's, repeating rifles were rapidly displacing the single-shot types in popular demand, and the manufacture of Maynard arms was at an end. But for twenty-five years Maynard had given the sportsmen and the target shot what he needed in a versatile weapon. And make no mistake about it, a Maynard rifle in good condition can still produce scores that would surprise many modern riflemen. The inventor-dentist may well be ranked with the other top-notch contributors to the advancement of American marksmanship. ◆ ◆ ◆

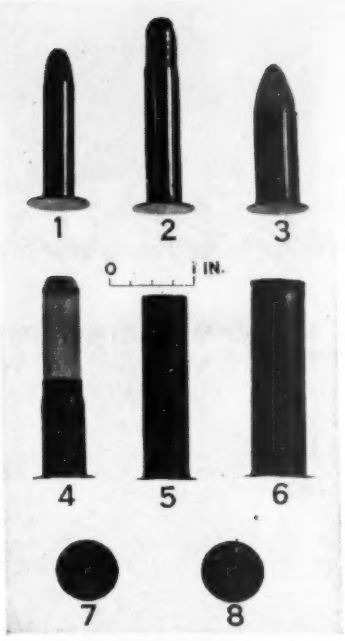


Fig. II: MAYNARD MODEL 1865 CARTRIDGES

Number	Caliber	Case Length (Inches)
1	.35-30	1½
2*	.40-40	1¾
3	.50-40	1-7/32
4	.50 shot	1¼
5	.55 shot (50 grain)	2¼
6	.64 shot (60 grain)	2-13/32
7 & 8	Front and back of detachable primer disc	

*The .40 caliber with the heavier cylindrical bullet was for long-range work.

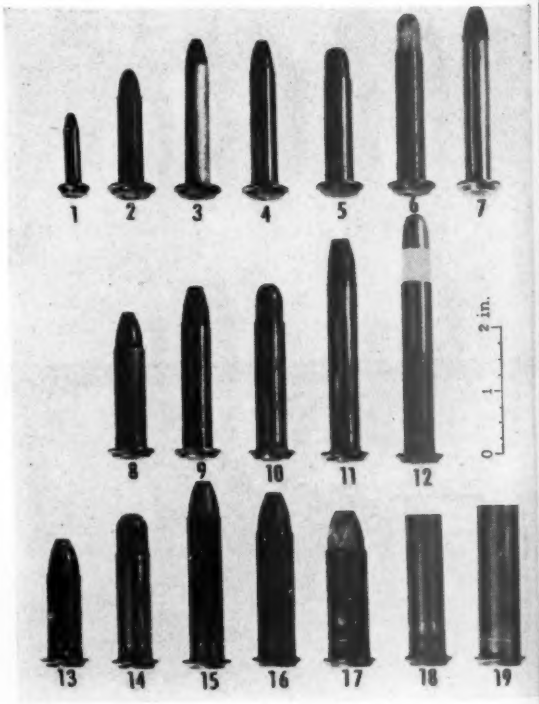


Fig. III: MAYNARD MODEL 1873 CARTRIDGES

Number	Caliber	Case Length (Inches)
1	.22-8	1-3/32
2	.35-30	1⅝
3	.35-40	2⅛
4	.38-50	2-1/16
5	.40-40	1-27/32
6	.40-60	2¼
7	.40-70	2-7/16
8	.44-60	1⅜
9	.44-70	2⅛
10	.44-70	2-3/16
11	.44-100	2⅛
12	.44-100	2⅛ (Creedmore)
13	.50-50	1-7/16
14	.50-70	1-13/16
15	.50-100	2-13/32
16	.55-100	2⅛
17	.62-100	1-13/16
18	.55 shot (60 grain)	2⅜
19	.64 shot (80 grain)	2-17/32

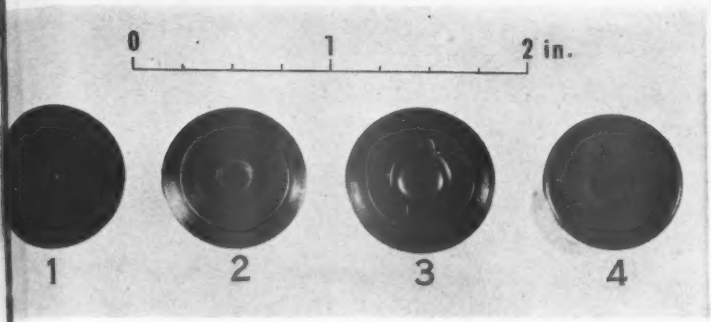


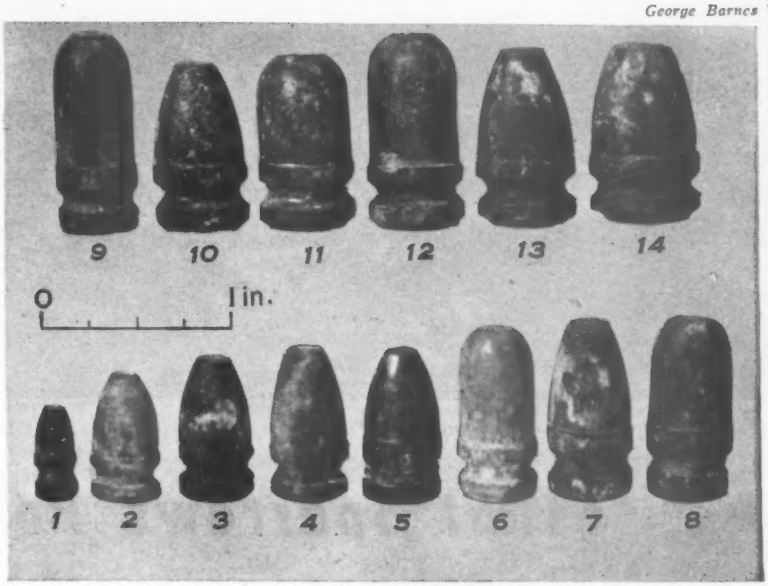
Fig. IV: MAYNARD BASE VARIATIONS

Number	
1	Model 1865
2	Intermediate type
3	Model 1873
4	Model 1882

George Barnes

Fig. V: MAYNARD BULLETS

Number	(caliber)
1	.22 conical (45 grains)
2	.35 conical
3	.38 conical
4	.40 conical
5	.40 conical special
6	.40 cylindrical
7	.44 conical
8	.44 cylindrical
9	.44 long cylindrical
10	.50 conical
11	.50 cylindrical
12	.50 long cylindrical
13	.55 conical
14	.62 conical



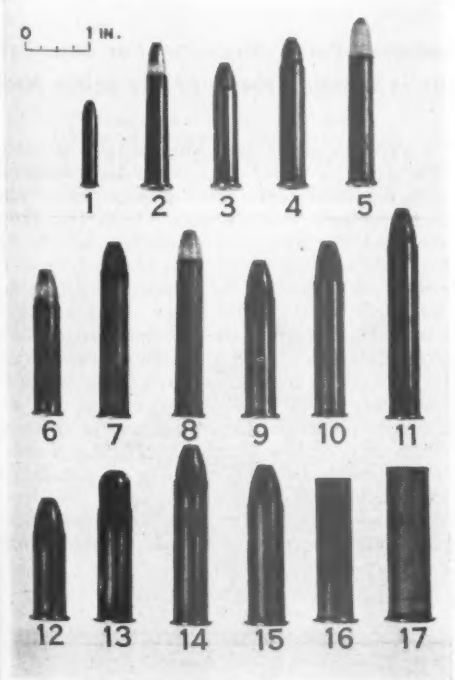


Fig. VI: MAYNARD MODEL 1882 CARTRIDGES

Number	Caliber	Case Length (Inches)
1	.22-8	1-5/32
2	.32-35	1-53/64
3	.35-30	1-9/16
4	.35-40	1-15/16
5	.38-50	2⅛
6	.40-60	1-25/32
7	.40-60	2-11/32
8	.40-70	2½
9	.44-60	1-15/16
10	.44-70	2-3/16
11	.44-100	2-13/16
12	.50-50	1-13/32
13	.50-70	1-25/32
14	.50-100	2-5/16
15	.55-100	1-15/16
16	.55 shot	2-9/32
17	.64 shot	2-7/16

I would like to acknowledge the assistance of the following men in assembling the material for this article: Lt. Col. Calvin Goddard, J. M. Standish, George Barnes, Edgar Russell, Jr.

—B. R. L.

Pistol range of the Sparrows Point (Md.) Police

That Sparrows Point Pistol Club

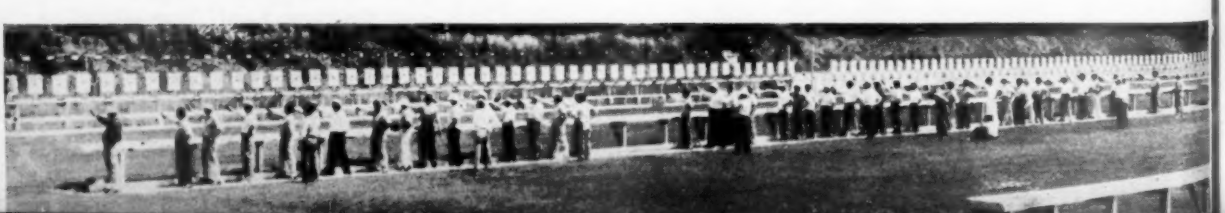
From these six Sparrows Point policemen is selected the four-man team to compete in matches. They are (left to right, standing) Lt. H. H. Leland, Officers Carroll LaMar, Albert Fewster, Charles Lipscomb, and (kneeling) C. A. Marshall and R. C. Clemson

By J. A. Harper

The town of Sparrows Point, Maryland has benefited from the interest in shooting shown by the police force

MANY PISTOL shooters in the East know of the Sparrows Point (Maryland) Police Force, either from personal acquaintance with members of the two four-man teams who fire regularly in tournament competition or from the Maryland State Pistol and Revolver Championships which the organization has sponsored annually for twelve years. A number of shooters are aware of the esteem in which the Sparrows Point force is held by other police organizations in Maryland, and some have heard of the excellent range which the Police Pistol Club boasts. Only a few, however, are aware of the job being done by the Sparrows Point police in the training of shooters from 14 to 19 years of age, and not all of these have any concept of the prominence of shooting in the small industrial town on Chesapeake Bay, ten miles southeast of Baltimore, which harbors the largest installation of the Bethlehem Steel Corporation.

The 170-man Sparrows Point Police Force is different from the usual law-enforcement agency. Employed by the Bethle



hem Steel Corporation, Sparrows Point police serve in the law-enforcement capacity by commission of the governor of Maryland. As might be expected of a police organization which serves in and around a large steel mill employing 30,000 persons and a small township of 5,000, Sparrows Point police are called upon to serve in many capacities. Often at the time an accident occurs in one of Sparrows Point's steel mills—and they do occur around coke ovens and blast furnaces even in a plant which takes every precaution for the safety of its employees—a police officer is the nearest person at hand, and he is well-trained in first aid. Sparrows Point policemen must have their sea legs also, since each tanker or cargo ship built in the Bethlehem shipyard carries an officer from time of launching until completion of the shake-down cruise. Yet Sparrows Point police are primarily law-enforcement officers, and their sidearms remain tools of the trade.

Chief Marcus H. Miles, the man responsible for the emphasis upon shooting in Sparrows Point, is an oldtimer on the force, having been a member of it for thirty-seven years and chief of it for twenty-three. He began pistol marksmanship training for Sparrows Point police after the poor showing made about seventeen years ago by an officer in routing an intruder from a house in a residential section of Sparrows Point. After chasing the prowler several hundred feet from the rear of the house, the officer opened fire and emptied his revolver at the fleeing man, who escaped unharmed.

The next day, an examination of the houses, garages, trees, and other structures on the block failed to disclose that the bullets had even hit in the area. Then and there Chief Miles decided that the men on the Sparrows Point Police Force would get more training in the use of their sidearms.

When pistol marksmanship training was intensified, there was need for adequate range space. Through Chief Miles' efforts the Bethlehem Corporation enlarged the range used by the force seventeen years ago from two targets tacked against a stack of rail ties to twenty firing points. A program of pistol instruction was developed and each man on the force required to take it. Today, the training for each new man joining the force includes instruction with a revolver and in first-aid.

Out of the pistol instruction at Sparrows Point came a new interest in shooting, and the Sparrows Point Police Pistol Club was formed as a result. Since the Pistol Club was organized, the range has been enlarged several times, until today it consists of 120 firing points, a clubhouse, and two smaller structures, making a shooting area that is among the finest in the country. While the present range is used from time to time by every member of the Sparrows Point police, it is used more frequently by the fifty officers who comprise the Sparrows Point Police Pistol Club—the men who did all the work in building the range, maintain it, and do the bulk of the work at the two tournaments sponsored yearly by the Sparrows Point club, the Maryland State Pistol & Revolver championships and the Maryland Police Revolver Tournament. The Police Revolver Tournament is a match in which Maryland state, city, and county police organizations compete with the service sidearms and ammunition members of each force carry regularly.

The junior marksmanship training program which the Sparrows Point police club sponsors is another extension of the emphasis placed up firearms training by the force. Inaugurated by Chief Miles about four years ago, after investigation of four complaints by Bethlehem employees and Sparrows Point residents of careless shooting with .22's, junior

Jean Gregory is a sparkplug of Pointerettes Junior Club, which finished fifth in girls team division of National Junior Club matches

Officer Robert Markle, chief instructor for seven junior clubs which train under supervision of Sparrows Point Police, instructs a group of young shooters in sighting and adjustments

instruction is now an important activity of the club. Two officers, Robert A. Markle and M. T. Dowling, are currently instructing the junior shooters, having replaced Henry H. Leland, when he was promoted from sergeant to lieutenant. All three men—Markle, Dowling, and Leland—are former Marine Corps rifle instructors. Leland, who conducted the junior training for two years, still maintains a close interest in the youngsters, and is frequently seen at the range on shooting nights. Chief instructor Markle and officer Dowling now have under their care seven junior clubs with membership above 225. The junior clubs located in Sparrows Point are a YMCA organization of boys with a membership of 97 and the all-girl Pointerettes Junior Rifle Club with 43 members. The other clubs are located in surrounding towns, and membership of each runs as follows: Dundalk Rangers, 51; Dundalk DeMolay, 38; Troop 427 Boy Scouts, 26; Troop 316 Boy Scouts, 13; Civil Air Patrol Junior Rifle Club, 13.

Using rifles borrowed from the Director of Civilian Marksmanship, the juniors receive instruction or compete in their own league weekly. Three boys' clubs use the range on Monday night and the other three on Wednesday evening. Girls fire on Thursday evening. To keep from holding the youngsters at the range for too long a time on evenings they fire for record or practice, each junior, upon arriving at the range, goes immediately to a clipboard and signs his name. He fires when those who arrived before him have finished shooting. The system is used so that a youngster who comes early may fire and get home to study. Late-comers to the range, of course, are the last to fire, but an attempt is made to clear the range before eight or eight-thirty because many parents do not like their children out on school evenings.

The interest in organized shooting has been so rabid among juniors at Sparrows Point that it has been necessary to close membership in the YMCA club, although members are still accepted in the other six clubs. Chief Miles likes to point out that since the junior training was undertaken by his force in 1946, only one boy has been brought before him for careless use of his rifle. The youngster admitted that he had been shooting behind the plant and that he had been wrong in doing so. No other trouble has been encountered with youngsters misusing rifles since that date.

For twelve years now the Sparrows Point police pistol club has sponsored the Maryland State Pistol and Revolver Championship tournament, one of the more prominent events in the pistol shooting world, drawing 389 competitors in 1950 and 381 in 1951. Held this year on June 1, 2 and 3, the tournament consisted of twenty-six matches, individual and team events. The highlight of one day's activity was the fish fry held after the last match was completed.

There was some sparkling shooting at the Sparrows Point tournament this year. The Marine Corps Pistol Team of M/Sgt. T. R. Mitchell, Capt. J. M. Jagoda, CWO Mark Billing, and Sgt. W. W. McMillan, Jr., raised the 1140-point team record for the .45 caliber National Match Course to 1150. The record of 1140, set by the Detroit Police pistol team, has stood unbroken for ten years. Buck Fisher, a newcomer to pistol competion from El Paso, Texas, scored 200 plus 10 for a new civilian center-fire, timed fire record. Chief L.M. Rizzola, USN, placed first in the aggregate with a score of 2596, Marine sergeant Mitchell was second with 2582, and Fisher was third with 2571.

The 120-point pistol range at Sparrows Point is ideal for the tournament. A ten-foot alley running from the range officer's stand to the 10-foot butt behind the targets divides the range evenly, with 60 targets to the left and 60 to the right. The range officer's stand, newly constructed of brick last year, is completely enclosed on the front and sides by bullet-proof glass which may be removed in warm weather, and from it officer Markle—who serves as range officer at tournaments—controls the line by loudspeaker. Slightly to the rear of the right end of the firing line is a cluster of three buildings—one, nominally a clubhouse, serves as the statistical office during shoots. A porch extends full length of both sides of the building. A second structure is little more than a roof, under one end of which are located sinks and other equipment for use with the huge brick fireplace and oven nearby; at the other end of the structure is a large ice-house which can accommodate fish and other foods needed to feed competitors. The third building is a small frame structure in which is located the pistol club's equipment for hand-loading their match ammo.

The Sparrows Point club has an indoor range also, which is located in a now-unused-as-such small theater above a grocery store near the police station. With a high ceiling, and liberally lighted, the theatre serves nicely as a gallery range. The range is fitted for pistol shooting at fifty or sixty feet and smallbore rifle shooting at fifty feet, though it is used principally by the juniors.

Sparrows Point Police use Colt revolvers exclusively. Years back the force turned in the Police Positives which had been carried previously as service arms for .38 Special caliber Official Police models on .41 frames. Experience had shown that standard-frame arms required frequent repairs. To cut down the expense of repairs, and also to shorten the time required to have a disabled arm repaired at the factory, Harrison, now captain of the force, was trained for six months at the Colt factory. With increased responsibilities and less time for such work after promotion to captain, Harrison taught Officer Marshall what he had learned at Colt, and the two men now share the task of keeping Sparrows Point's arms in shooting condition. The work is done at a great saving to the force, since repair bills for work done at the factory usually ran in cents for parts and in dollars for labor. A parts inventory of about four or five hundred dollars is kept on hand by the force.

Sparrows Point has two four-man teams which compete regularly in NRA competition, and they, of course, use Officer's Model .38's in competition *(Continued on page 43)*

Officer Markle (center) and Officer Dowling instruct class of junior shooters at Sparrows Point

ANNIVERSARY of NRA Junior Program

THE YEAR 1951 marks the twenty-fifth anniversary of the junior shooting program of the National Rifle Association. It was in 1926 that the NRA took over the job of teaching the youth of America to shoot straight and safely. In the past quarter-century, 3,500,000 boys and girls have been given shooting instruction under the NRA gun-education program through schools, camps, clubs, and other organizations which sponsor youth activities.

In 1917 the Winchester Repeating Arms Company started a medal contest to interest the boys and girls of America

in riflery. The Company offered two medals to the boy or girl owning a Winchester rifle for meeting certain requirements. The interest shown by youngsters in earning these medals was so encouraging that Winchester called in B. M. Russell for consultation about ways and means for broadening the program. Mr. Russell had had considerable experience in connection with various types of boys' work, having been affiliated with the Boy's Brigade, YMCA, Boy Scouts, summer camps, and other organizations.

In January of 1918 Winchester undertook to teach every boy and girl in America to handle a rifle safely and accurately. Two years after the inauguration of the nation-wide campaign, January 1920, the Winchester Junior Rifle Clubs had 47,000 members in every state of the union, plus Canada, Alaska, South America, Australia, the Philippines, and Hawaii. The Winchester junior shooting program continued to grow until in 1925 over 100,000 youngsters were organized into rifle clubs and shooting for medals and firing postal matches. The YMCA, Boy Scouts, schools, and churches sponsored clubs and yearly fired a postal National Match. Throughout these years, Winchester maintained close liaison with the National Rifle Association which, up to that time, had been concerned with adult shooting only.

In late 1925 the Winchester Company offered to turn over to the NRA the organization known as the Winchester Junior Rifle Corps. The NRA Executive Committee, in its November 1925 meeting, accepted the offer of the Corps and renamed it the NRA Junior Rifle Corps.

The NRA's assumption of responsibility for the Junior Rifle Corps organized by the Winchester Repeating Arms Company eliminated all commercial consideration from the junior program, making it possible for boys and girls to enroll regardless of the manufacture of rifle and ammunition they might use, which in itself made possible tremendous extension of the program.

Herbert Goebel, who had been connected with the junior program at Winchester, joined the NRA staff to administer the NRA Junior Rifle Corps, which immediately gained new life. More and more youngsters joined shooting ranks. The sport was now receiving as much attention as baseball, football, and like sports. With shooting done under competent, qualified instructors, the days in which it had been simply tolerated as a fill-in activity for boys and girls were past.

Today, the junior program of the NRA is as big as any activity sponsored by the NRA, and of infinite importance, since it is in the formative years of youth that habits of safe gun handling are ingrained in character. A complete program offers supervision and instruction to boys and girls from the age that they are old enough to handle an air gun, eight or nine, to the time they are ready to graduate to the senior ranks at 19. Boys and girls are organized into more than 3,000 junior clubs. Special qualification medals and emblems are awarded to each junior shooter for improved efficiency, and a complete competitive program is maintained for each local club which culminates annually in the Junior Championships. In addition, the NRA is constantly increasing its ranks of adult shooters who are qualified junior instructors.

For boys and girls too young to handle powder guns, a fifteen-foot air gun program is available. It was instituted in the last year and, while no competitive schedule is sponsored by the NRA, youngsters can fire for medals and awards under the supervision of qualified instructors. A twenty-five-foot program is provided in which slightly older or more advanced boys and girls use the .22 BB gun. Medals and certificates are awarded for scores fired under qualified instructors with the gun which equal a certain numerical value.

The .22 caliber rifle program, which was begun under the NRA by Goebel and built up by such men as Richard Rogers, George Kuch, and Frank Wyman, offers American boys and girls a complete shooting program which includes personal instruction from qualified adults in the safe use of a rifle,

firing for medals, competing in local school and club tournaments and firing in regional and national gallery and camp championships.

The NRA has many partners in its work with junior shooters. Future Farmers of America, 4-H Clubs, American Legion, Veterans of Foreign Wars, Boy Scouts of America, high schools, and colleges and many other organizations sponsor shooting programs in cooperation with the Association.

The NRA junior program grows larger each year. In 1951, well over 200,000 boys and girls are participating in one or more of the NRA junior shooting activities. ◆ ◆ ◆

Hunting SMALL GAME

By Henry M. Stebbins

Conclusion

TO SEE GAME first gives us the best chance to kill with the first shot, often the only one. In the woods, we call it still-hunting. In the open, game being spotted far out and approached to within killing range, it's stalking. So similar are the principles that an expert in one type of country, given time to 'get his feet under him,' learns to give a good account of himself in the other.

First of all, there's no hurry. Over-anxiety reduces our chance of finding unalarmed game or of hitting game that has burst into flight. Over-anxiousness causes most hunting accidents as well as a high percentage of game wounded and lost. Take your time, reckoning not the hours or even the days afield, for thus is skill in observation, sign reading, and quiet, unobtrusive travel attained. After all, hunting is supposed to be relaxation, not competition. Viewing it as competition is self-defeating.

The woodchuck or groundhog can be still-hunted or stalked. Neither pocket-size nor easy to kill outright, he is often a boy's first 'big game.' Except when he has been much shot over or makes his home in the woods, he isn't as wily as we like to call him. Just why the meadow and pasture hunter takes more pride in long kills rather than in stalking is rather a mystery, until we recall and admit the tremendous fascination that modern precision equipment has for us riflemen. Instead of cracking away at ranges beyond our skill as proved on paper or better still, at neutral-colored, inanimate targets, we can combine the two methods. Often we must, and they are equally important to any sniper.

Owl, crow, and prairie dog are targets suitable for the small-game hunter afield with a rifle

Though chucks seem less subject to epidemics than other game, they are whimsical fellows and often migrate from apparently ideal country, pitted with their old burrows, which we know has not been shot out. Most rich pasture and meadow can be profitably searched for chucks, as well as river-banks, brushy stone walls, the shadowed edges of woods, and even the depths of forests as large as New York's Adirondacks. It is all pretty country to be out in, and fresh-thrown dirt at the mouths of their holes proves it to be in use. Except in open green fields, where they require no hunting worthy of the name, a 6- to 9-power binocular, or in the woods a wide-angled 4, searches ground more readily than a riflescope. We can have success hunting chucks with no glass at all, being sure before we fire that what we see really is a woodchuck—there have been grim, fantastic accidents.

Early hours of morning and evening are favorites with many, and there is a dull period from noon till four when fewer opportunities generally occur. But chucks can be found at almost any time, even in a light rain, for making a living is serious business, as important as the afternoon siesta which they may take in the sun. They are active in earliest spring—their breeding season—when shooting can make summer sport poor indeed. In Pennsylvania the chuck now is considered a game animal and protected except from July through September.

In tall grass season, when hunters are scarcely welcome to tramp the meadows, the pastures are productive, and the extreme edges of meadows challenge the still-hunter to soft going and quick shooting which later in the year pay off on trips after more important game. Hunting the chuck in deep woods is post-graduate, even if we've combed those woods before and memorized the location of dens. Here we must use ears as well as eyes and move as silently as when we're after big game in the forest. Don't expect a wood's chuck to sit up for the shot when you whistle at him. Most of them have learned better. Late in the fall nearly all chucks move to the woods to hibernate. Then they are seldom to be seen, except on mild winter days, by a good woodsman. Their snow tracks are fairly common.

Patient, motionless, downwind watching near a burrow can get you a chuck, if you must have one. Usually, it's unjustifiable. In the southern Pennsylvania mountains, where they make trouble, an old friend who has no high-power rifle hunts them so, and he doesn't let their meat go to waste. John's heavy-barrelled Stevens .22 speaks just once to each chuck—head shots—and a box of hollow-points lasts him more than a season, zeroing rounds included.

We must have accuracy in a chuck rifle, and no rimfire is sure except for brain or spine shot. I mean *sure*, which

Wisconsin Conservation Department

A survey of ways of hunting rabbits, squirrel, crow, chuck, hawk, and owl, game which offers occasional good shooting to the hunter who reckons not the hours afield and possesses skill in observation and sign reading

limits range to some 75 yards for the best man and gun. A light breeze can ruin a clean record as easily as a sour hold. We want bustibility in high-power bullets for long range or satisfying work at any range; except that big-bore, blackpowder ballistics are to some of us fascinating to use at well under one hundred yards, safe if a soft bank makes ricochets impossible. Even though we hollow-point the .38, .40, or .45 slugs, the fast, fairly light, thin-jacketed, high-velocity bullets from Hornet to .30-'06 and beyond are safer. They extend our target area, making shoulder and sometimes abdominal hits quick killing. Remaining velocity, out where the bullet connects, should be over 2,000 feet a second to be safe in settled country and fatal to our game. Even so, we try not to place the shot in sloping rock, shale, or hard-packed clay.

The gray or fox squirrel is too fine a target ever to be taken with a shotgun. We can hunt him by watching or by the more exacting still-hunt, moving at considerably less than mile-an-hour gait through woods or where trees edge the cornfields. He is as suspicious as the wood's woodchuck of any sudden or angular movement, of bright-colored or flapping clothes, and his senses of smell and hearing are keen, or he wouldn't grow big enough to grease a pan. It seems as important to avoid skylines as noisy cover when you move, and when you watch for him you need a solid background almost as much as the ability to sit really still and the observation that distinguishes him from a knot on a tree or a bit of bark caught in a crotch. He's patient, too! Windy days make him nervous; wet, still ones often give you the best shooting. He likes earliest morning but is busy almost all day, in pleasant weather, sometimes napping out where you'll rarely see him on bright fall afternoons.

The most promising woods, with cafeterias of oak, beech, and other nuts trees, may seem to have no squirrels when they should. Pre-season scouting is as worth while as it's fun, looking for nutshells, clipped pines cones, and the tracery of claw marks on barkless stubs and logs, listening for his stirring in the leaves or his chatter from aloft.

Since the gray squirrel is grand game, he deserves fair treatment. A solid, neither sharp nor fast, .25 caliber bullet, or a slow but hair-splitting round ball of larger diameter, is the squirrel medicine of many experienced hunters who can buy little off the shelves to suit them. They want reliable killing power without undue laceration. Whatever the squirrel rifle, it must be accurate and well aimed. The brain shot is perhaps easiest, at least when the animal faces us and a low hit will strike the spine instead of making the horrible mess of carrying away the jaw. The heart shot, good unless a heavy load is used, should be placed in the shoulder as the squirrel sits up, not below it. Running along a limb or even on the

Binoculars for open fields and the woods serve the small-game hunter better in searching out game than the target scope

Shadowed edges of woods offer many shots at chucks, as do river banks, brushy stone walls, and rich pasture

ground, he is such an elusive mark that almost too powerful rifles are needed, for he can carry a lot of lead away to his den. He should never be shot as he sits at the mouth of that den, lest he fall back in and be lost.

More than most game, the squirrel gives us opportunity to develop the gift, if such it is, of the 'born woodsman' who picks out game because to him it looks so different from its background. The cottontail rabbit is rarely caught sitting by those who haven't that knack in such degree as to see his large bright eye or humped back as he hides in brush or grass—and those fellows should take him only with a pistol or kick him out for a fair running shot. Too easy for all but the tyro with a shotgun, a hustling rabbit is fine, difficult game for the rifleman who, though he may take little meat home, will find it sweet. It's the reward of hunting as well as snapshooting of a high order. Many opportunities are needed if one is to persevere and become a master! Such a hunter, man or woman, shoots splendidly in the deer forests.

Since the pint-sized whitetail is largely nocturnal, we're most apt to find him active in shooting light in early morning or evening, though he can be routed out or spotted by a sharp eye at almost any time except when bitter cold drives him into woodchuck burrows or hollow logs. He enjoys the same kind of weather—though maybe more of it!—as we do, and when sunny hillsides or windless opens tempt us, he's also likely to be there. We find him, before he's under steam and far away, by examining a little ground thoroughly rather than by covering a vast acreage. In the open he favors overgrown fence-rows and weedy hollows or ravines, grain stubble and orchards when profitable to him. In the woods he generally does a good job in taking cover, and occasionally you can jounce him out of brush piles, even with a stone, and you'll need firm footing to hit him with a rifle. He may be anywhere, so don't be overgunned with rifle weight.

Often a chuck or praire dog is a boy's first 'big game'

Fresh snow trails practically insure snapshooting practice. I'll always relive a morning of my first winter hunting, expended on just one rabbit. I carried a single-shot Remington .22 but couldn't have hit him with any rifle, for my practice had been confined to stay-put targets. The repeated trail, glimpse, fire was so much more thrilling than to have got him, first pop, with a shotgun that that rabbit owes me nothing. I hope he's living yet, the 'old man' of a flourishing tribe.

Western jacks can be snow-hunted and offer fine sport. Speed and starting distance from the gun make them as difficult, if the two can be sensibly compared, as the cottontail darting and zigzagging through cover. When he can, the cottontail usually runs uphill, which makes lead more difficult as one tends to undershoot, too. To kill the jack cleanly and surely requires rather husky ballistics; though a pretty reliable minimum for the cottontail, by and large and avoiding the puny, is the .22 long-rifle hollow point. Try as hard to place the shot well forward as you do in deer hunting. A leg-broken or gut-shot bunny is often bagged, but it's sloppy work and one hates to hear that scream. In the brush, wide-apertured rear sights and big ivory or red beads are exactly right. Some prefer open sights and wonder why they overshoot on a split-second chance. The self-loader makes festivity for the tenderfoot; few oldtimers use it, though you may enjoy the sight of one using it right.

It takes real rifle-hunters to get woodlot grouse, as distinct from the wilderness birds. They do it by still-hunting, just as they secure an occasional longer shot at a pheasant, or a turkey, which of course is callable. Few grouse are taken a-wing by anyone's bullet, and I recall just one old wood-hick, a member of the faculty who trained my boys, that quite often dropped a flying quail with his .22. Of course, many summer quail have been murdered aground with .22 short.

Once in a while you'll get a shot at a grouse by watching their known ranges, especially their spots for dust-bathing, and they do walk around a bit in early and late feeding. On the fringes of gang hunting, where shotguns are booming down in some big hollow, a watcher safely back from the rim will have odd and surprising chances as game vacates the battlefield. It may be a gliding squirrel or running rabbit, a low-sailing hawk, or a grass-cutting grouse that takes ground and trots off under a bush.

There are quieter and pleasanter places, where you pit your wits against those of unharried game. The drumming of a partridge is a sound few of us hear today, the sight of one so great a pleasure, some of us think, that the proud, swelling fellow should be spared out of gratitude. But late season . . . then's the time to fulfill your dream, if you can! Watch snow sign, learn where they 'use' and return there, light of foot, alert of eye and ear. You may earn a sitting shot; more likely the thrash of wings on brush will give you one quick chance at the bird a yard or so off ground, not as hopeless as one tearing past ten or twenty feet up. Search, too, the lower branches of trees, especially evergreens, when the new snow comes. They like to perch there, often in plain view. Almost any dog with a nose will show you that tree, making a beeline for it when many yards away. But unless you try only sitting grouse, don't go after them with peewee loads. Even a hollow-point .22 long rifle can fail miserably, and grouse are adept at hiding when wounded.

The fox is a varmint or a sporting animal, according to where you get your mail. Certainly he's a varmint in grouse or quail cover or where rabbit population is thin. When his fur is prime, when his numbers are excessive, or where rabies has broken out, he's fair game, though we'd hate to see him, or the coyote, wiped off the list of American wildlife. The rifleman can hunt him by the aid of dogs, by still-hunting, or by watching trails and crossings familiar to them both as creatures of habit. He likes rabbit cover at almost any time, is partial to meadow mice, and his alertness and observation by ear and nose are superior to ours. Against the snow he stands out well, usually at considerable distance and going fast. But his trail in soft and quiet snow is worth following, sometimes affording a quick shot when brush thins out ahead, or a long one across an open valley. At least you learn much of his habits, how he records disgust at having just missed the bus at a mouse's burrow. He's smart, but awfully human, for sometimes he does make silly mistakes.

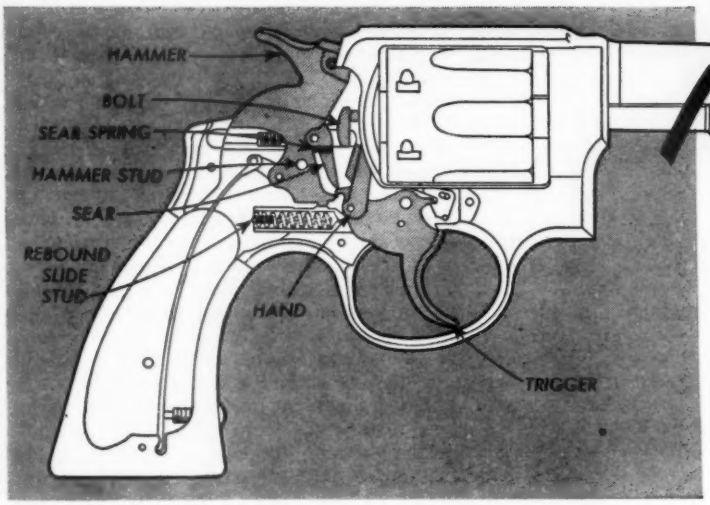
Don't be undergunned, for the fox's vitality varies greatly and can be amazing. A round-nose, full-jacketed .30-30, for example, destroys little fur, but a fox may live a long time after being drilled with it. And in most country, long shots are the rule.

A fox's hard to come up with. Watch wind, watch your feet, keep alert. With deer season over, you no longer need wear blazing scarlet, and he doesn't seem to be color-blind or any kind of blind at all except when he goes crazy (human, again) in the mating season of the wild days of January and February. Stand still at any time and he may pass you by quite close, but a flapping coat or scarf isn't woods-natural and off he goes.

The big hawks and owls, true varmints, usually only appear scarce. Small game knows different! Look for hawks' early summer nests in high trees, with droppings underneath, on high dead limbs; scan the open fields and ridges where in midday they hunt mice afoot; and watch the leafy summer branches from which they spot small game. In the west a trained eye sees many a hawk perched on the side or top of a mesa, where long ranges make shooting a thrill. Only such an eye will find the big owls in the shade of heavy woods, but often in daylight they sit in clear view or flit noiselessly through the trees to light within easy range. At dusk they're on the move in grouse cover; so when your day after the 'pats' is over, keep your shotgun ready and kill them if you can, for next year's sport.

Except for subnormal adolescents in early summer woods, the crow is perhaps the most difficult of varmints to kill with a rifle. Even with green coveralls and a sackful of patience it's difficult to knock off the sentinel, who usually perches over the skyline where you dare not send a bullet. Car hunting, legally conducted, offers safe shots into fields when a high-velocity rifle is used. The same long shots may be had afoot if a fellow will cross ridges cautiously—perhaps on the crawl—upwind. Blinds and calling let us use the shotgun a-plenty, and the crow is fair scattergun game. It takes a real caller to make the crow settle in trees—in view for a rifle shot, that is. Woods waiting pays well if we are first on the grounds, and a nesting ground is a Roman holiday. By studying their habitual flights we locate their night dormitories; to get there first with a scope-sighted rifle and hide like a savage means shooting for sure. Orchards, lightly wooded river-banks, fields of young corn, and thick swamps all mean still hunting, of high quality, too. Take all possible advantages, even to clothing, and a broad-brimmed hat to hide the gleam of your face. Until you're a past-master, you get few crows with bullets, which may be of almost any safe caliber, though the .22 is rarely a prompt killer. Remember your responsibility as to where those bullets land, for you'll be tempted! A few riflemen of unusually fine coordination pick low overhead crows quite safely out of the air. Most of us work for them. ◆ ◆ ◆

Snow-hunting small game often gives a hunter more sign than is available to him in woods or meadows



Cutaway drawing of S&W .45 revolver

No Alibi Now!

By John P. West

AFTER THE competitive pistol ruling prohibiting alibi runs for jams and misfires went into effect in 1948, I began having troubles—like everyone else—with timed and rapid fire. With a misfire on the first cartridge, I was out fifty points. Even with a malfunction on the first shot, I lost forty points by not being able to fire the last four shots.

Today, that rule has been repealed, but the 1951 rule which permits a local tournament either to adopt a no-alibi ruling or to permit an alibi, still means that a died-in-the-wool shooter will run into a meet occasionally which prohibits them. I am prepared for that no-alibi rule—I shoot revolvers entirely.

But don't I lose time in cocking?

No. It is generally true that a competitor's .38 revolver scores are better than his .45 scores. Recoil of the .45 must cut down scores, not the fact that the shooter must cock the .38 revolver after each shot.

And there is more evidence that it might be profitable to shoot revolvers in competition exclusively. During the first six months in which I fired only revolvers in .22 and .38 caliber matches, my Florida East Coast Pistol League classification with the two guns jumped from a high Sharpshooter to a low Expert. For the last three of those six months I fired an S&W 1917 .45 revolver which I had worked over myself into what I call my K-45. My Florida East Cost Pistol League classification with the .45 jumped from an average of low Marksman to an average of 86.93, which is high Expert. Some of the improvement during that period was due, I think, to the fact that I was using my own reloads, a midrange load, with which the .45 shoots just as sweet as my K-38 with no more recoil than the K-38 using a factory wadcutter. Too, with a revolver no nervous strain was imposed on me by having to chase .45 brass every time I fired a string of ten shots.

If you are interested in how an S&W 1917 .45 can be converted into a K-45 target revolver, let me explain.

First, obtain the parts and tools that are needed to do the job. Order an S&W K-38 click-adjusting rear sight complete; one K-38 front sight blank; one new hand for an S&W 1917 .45 revolver. Then buy one piece of bar iron, 5/16 inch square by 5¼ inches long, which will allow you an extra ¼ inch length on the bar. Also, you will need a small high-speed hand grinding outfit (I used a Casco myself).

You have, no doubt, observed that the top of the frame on the K-38 is grooved to hold the sight, that the back of the frame has a square cut notch to allow the sight to overhang. Now, using the edge of a large file, duplicate the groove in the top of the frame, then file the notch in the back of the frame for the rear sight. To duplicate the recess for the nut of the elevation adjusting screw, first drill, using a small bit, three holes about ¼ inch deep from the rear. Then, using a burr with the hand grinder, cut these holes into one and shape the cut to fit the nut. Now cut a slot for the elevating adjusting screw by drilling from the top. Fit the rear sight to the frame, then drill and tap for the front hold-down screw.

It is very important that the front sight be exactly vertically in line with the rest of the gun, as the front sight is so high that any small variation could possibly throw off the line of sight so far that there would not be enough windage adjustment in the rear sight to take care of it. To install the barrel rib and front sight, proceed as follows.

Cut down the front sight on the .45 until it is 5/16 inch high and ⅜ inch long. Drill a string of holes at the proper place in the rib material, so that the rib will fit down over what is left of the front sight and there will be enough room for the bottom part of the front sight blank to fit in from the top. It may be necessary to remove some metal from the bottom part of the new front sight blank in order to make it fit properly in the slot. Clamp a hacksaw blade to the top of the rib and, using small, thin emery discs on the hand grinder, groove the top of the rib to resemble the rib on the K-38. Using the hand grinder, shape the bottom of the rib so that it fits the barrel contours from the front of the barrel to the front of the rear sight. The front of the rear sight should be notched on the underside so that the back end of the rib will fit beneath it and the two pieces will be flush on top. Such an arrangement will be a big help in keeping the rib on the barrel. Using soft solder, sweat the rib to the barrel, making sure that the rib is exactly vertical with the rest of the gun. Drill and place a pin through the rib and what is left of the old front sight. Then, solder the new front sight in place on rib, and drill and pin it to the rib.

The shaping of the rib can be made easier by filing notches at regular intervals on the bottom side, so that the rib is ventilated and so that only the remaining legs must be shaped to fit. Easier yet—take a short piece of the rib and make a short ramp with the new sight on top of it. Personally, I would rather have the added weight that a solid rib gives.

To put a short action in the revolver, take the double-action arm from the hammer and discard it. Then build up

the hammer with welding rod and remove metal with a file where indicated in the diagram at right. Build up areas indicated by black areas and cut-off portions indicated by dotted lines. Be sure you find a good welder to build up the areas. Then go on to the following steps.

1) Grind off old sear notch, as indicated.

2) Weld on material and file new sear notch, as indicated.

3) Remove excess material on hammer below sear notch, so that hammer will fall free and clear when released from sear. Do not remove any material on bottom side of hammer, which might affect rebound of hammer.

4) Mark hammer in cocked position, so that material may be welded on back of hammer as indicated. This will act as a hammer stop and keep hammer from going beyond cocked position. File off material until hammer will cock freely and still move only a short distance back of cocked position.

5) Widen hammer spur by building up on both sides with weld, then working down with file to resemble K-38 hammer spur. Bend hammer spur to angle where it is most convenient to thumb when cocking. Roughen top of hammer spur by crisscrossing it with hand grinder, using thin emery discs.

6) The trigger pull should be adjusted at this point. The adjustment is made solely by changing the depth and angle of the sear notch (see diagram at right). After the trigger blacklash adjustment has been made, no change should be made in the sear notch or sear, as it will change the trigger blacklash adjustment and throw off the cylinder timing.

The old hand may fail to turn the cylinder all the way into position, so that the cylinder stop can lock. I found that a new hand made just the right amount of difference on my gun, but it might take a little fitting on another gun.

You will find now that that part of the trigger which extends forward into the notch of the cylinder stop, will be so much out of time that it will hold the stop down and not allow it to engage the cylinder. Place the trigger in a vise and bend the projection slightly upward, using a heavy drift and hammer, so that when it is placed in the gun it will allow the cylinder stop to engage the slot in the cylinder fully.

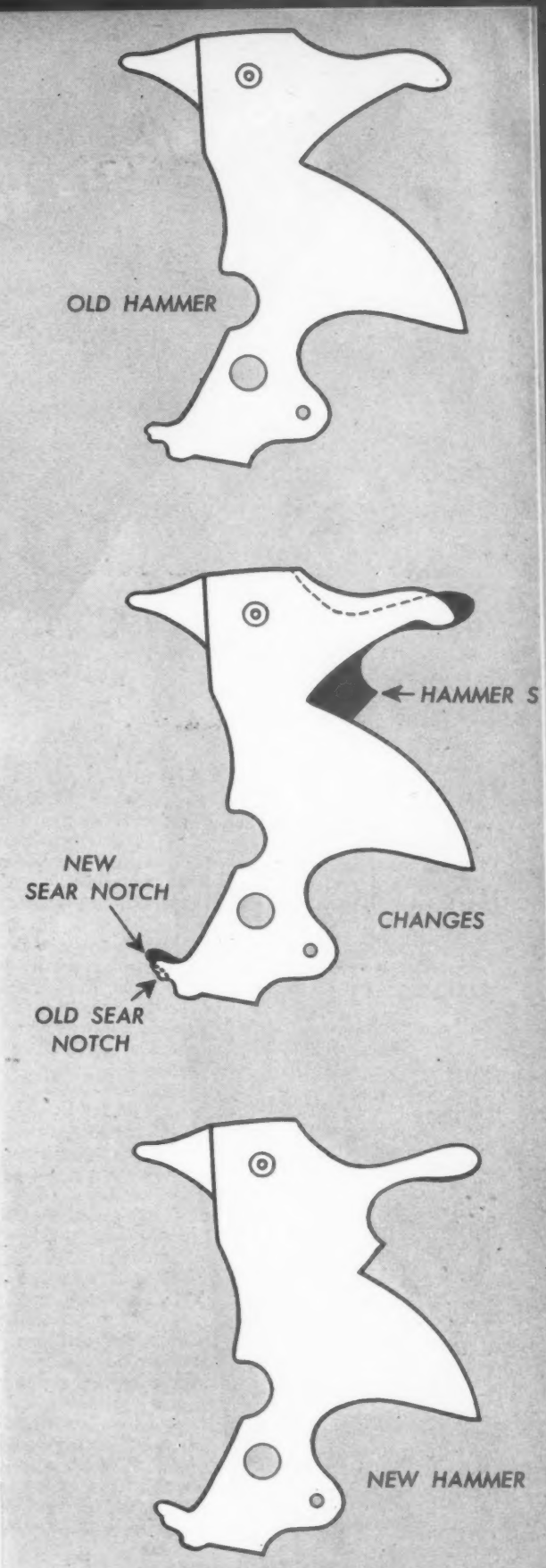
The projection, after bending, should fit close enough to the trigger stop to move the stop and release the cylinder at the first backward movement of the hammer before the hand starts to turn the cylinder. This part of the trigger on my gun was easily bent cold, but it may not be possible on all triggers. It may be necessary to remove some metal from the top side of the projection, so that it will fit freely in the notch of the cylinder stop.

Caution—before removing trigger backlash, all work should be finished on hammer, sear notch, sear, and trigger. The frame of the K-38 is slotted to hold the piece of metal which is used as a trigger stop. Using a hand grinder with small flat emery discs, cut a similar slot. Then, cut a small piece of metal to fit the slot and act as a trigger stop. Drill the frame and trigger stop, then hold trigger stop in place with a pin through frame. Adjust trigger stop by filing until trigger will return far enough to allow sear and sear notch to engage and hammer to stay cocked.

To duplicate the surface on the K-38 trigger, use the small flat emery discs with grinder and cut vertical grooves on front of trigger.

After the work is accomplished, set rear sight in one-half elevated position and sight in for elevation by filing off front sight—if it needs it.

One last thing, which not only helps the appearance of the gun but also helps me to shoot, a pair of custom-made Sanderson grips. They are hard to beat and can be had for ten dollars. ◆ ◆ ◆



IRON SIGHTS STILL SHOOT

By H. V. Stent

HAS TODAY'S big-game hunter any chance with iron sights? A lot of hunters ask that question these days. Sporting magazines are so filled with scope dope that it would seem no self-respecting game animal will die if shot by a rifle with any other type of sight.

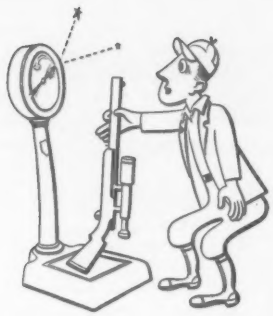
Cheer up, brethren with glassless guns—to be scopeless is not to be hopeless! The modern rifle telescope is indeed a splendid sight, but millions of hunters are still killing everything from marmots to moose with iron sights. In fact, you'd probably be astonished to learn the number of benighted individuals who are quite content with nothing else.

Why? Because there are other features of importance in a sight for a big-game rifle besides hair-splitting accuracy and extra-clear definition of target. Neither of these is, in fact, very badly needed when you consider the size of mark that big game presents, and the ranges at which it is usually shot. And at least four other features get serious consideration by millions of hunters when they select a sight for their autumn trek after deer or moose. Thrown together in no particular order, the average man's list of essentials in a good practical hunting sight would probably run about as follows: (1) accuracy, (2) clear visibility, (3) cheapness, (4) convenience, (5) ruggedness, (6) speed.

Now let's see how the three main types of sight—scope, peep, and open—stack up against the scale. In accuracy and clearness the scope would doubtless rate first, with the peep next, and the open last. But on all the others, the order must be reversed; the open sight gets top marks, the peep stays in the middle, but the scope drops to the bottom of the class.

Heresy? Perhaps. But can you disprove it? Not on the score of cheapness, certainly, when a good pair of front and rear sights, open, costs only five bucks, peep twice as much, and scope, mounted, from thirty to a hundred and up. And shooters who don't have to worry about whether their equipment is cheap or not are a pretty small minority. The big majority of us, afflicted with limited incomes and soaring expenses, have to squeeze hard for every dollar we get for our shooting hobby.

Just because you've got a new 4-power scope, don't throw those iron sights into the trash can. They're more advantageous than a scope



As for convenience, it cannot be denied that the open sight, however revolting, is lightest in weight and most streamlined, the scope the heaviest and the most awkward on a rifle. That may be ignored if you're rich enough to do all your hunting from horseback with a pack-train of supplies, but the ordinary guy hikes through the woods all day in search of his deer, or bear, or moose. By the end of such a day every ounce of weight counts, and every projection that gets in the way becomes annoying. Even the receiver peep is more in the way, and slightly heavier, than the simple mid-barrel open sight.

It may be horribly disillusioning to admit that the average man would rather have a sight that is light and unobtrusive, if only moderately accurate, than one that weighs a half-pound and sticks up like a sore thumb, even though it has much more accuracy and resolving power than he needs. But a still worse shock is in store. Mr. Average Guy doesn't baby his guns like a gun crank. He's apt to use his rifle as a staff to help him climb up rocky slopes or over windfalls; occasionally he carelessly lets it fall. The sight which stands hard knocks best, without being knocked out of alignment, is not the scope, gentlemen, even though these are much more rugged than they used to be; it's the old-fashioned open sight. The peep, as usual, comes in between.

Likewise, if you have to hunt in rain or snow, or when snow is hanging on the trees—common hunting conditions in the northern United States and Canada—the sight which is most certain to remain ready for that quick, unexpected shot and not be blurred with rain or plugged with snow is—I shudder to confess—the open sight. The peep comes next—fairly good in rain, but quite susceptible to snow. And a few days of hunting in wet or snow-laden woods has sent many a scope-user back to simple iron sights again.

And speed? For most people, the open sight seems to be the fastest. You'll note that most exhibition shooters, like Herb Parsons, Ad Toepperwein, et al, use it for all their quick aerial work; an odd one of these professionals uses the peep, but I've never heard of one using a scope. Likewise, the British specify open sights on their big double rifles for use in close range emergencies. A one-power scope might be as fast; but I have always found those of 2½ power and higher to be slower than either kind of iron sight.

Part of their superior speed is due, in my opinion, to the fact that open sights do not separate your aiming mark from its surroundings. The circular rim of a peep sight does. A scope goes further, and by its magnification and illumination makes everything within its field look different from its appearance to the naked eye. As a result, it's slower to find a mark inside the closed field of either scope or peep than to bring an open sight up under the target without having to blot it out by putting a rim around it—slower also, to find the game you were aiming at when you lower your scope or peep past it than when you can keep your eye fixed on the game and lower the open sight further beneath it. Try it out with the different sights and see if you don't agree.

By this time, of course, any well-trained target-rifleman-hunter who has endured so far is fairly frothing at the reticule. "But none of these so-called advantages of iron sights is worth considering," he howls, "because those old-fashioned, obsolete, unmentionable has-beens of iron sights haven't accuracy enough to hit a mark the size of a deer's body at anything over 100 yards for an open sight, or over 200 with a peep."

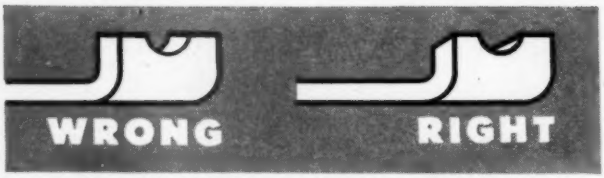
How do you know? Have you ever tried out all three in an earnest endeavour to get the best out of each one?

No? Well, me, I have. I've used all three on small game and on targets. Never was lucky enough to get a shot at big game with a scope-sighted rifle, though I carried one for three hunting seasons; but I've killed one mule deer with open sights, and a dozen—plus one moose and one grizzly—with peep. Just once in twelve years did I miss with peep sights—a shot at a buck in failing light when a scope might have done better. And three times I've killed running bucks in situations where the extra speed of iron sights made all the difference.

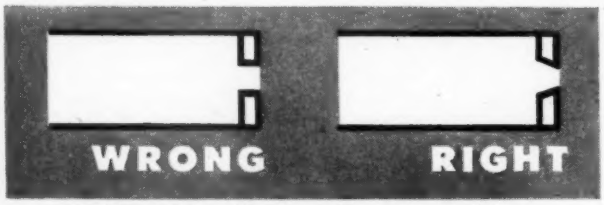
What's more, a couple times lately I've run a test. None of these fancy affairs with bench-rest ranges, costly equipment, unlimited ammunition, and dime-sized groups. I'm just an ordinary gun-toter with no special equipment or skill, and though I may do a little more shooting between hunting seasons than most, I certainly don't do enough to be any expert.

My first 'test' consisted merely of getting a Redfield Jr. mount and J2.5 scope fitted on my Marlin M39 .22 plinking rifle, as well as a micrometer peep. An open sight was then pasted to it with Scotch tape to get three sights on the same barrel, and I proceeded to shoot a five-shot group with each sight at 200 yards.

Results? With scope, a 4-inch group—as good as I could expect to shoot. With peep and target disc, the group was 8¼ inches; but four out of five shots were in 3½ inches, and I've shot enough 2½-inch groups at 100 yards with the



SIDE VIEW: Slope cut in that open rear sight away from line of vision to keep glare out of your eyes



TOP VIEW: With a file, slope sides of an open sight so that you look across an edge rather than a flat surface

sight and rifle to be reasonably sure of five-inch groups at 200 yards when shooting my feeble best. Open sights—held on with Scotch tape, remember!—8¼ inches, with four of the five shots in 5 inches.

But the shooting was at a sharply defined black-and-white target, which might give iron sights an advantage. So for my second 'test', I casually picked up a buff-colored cardboard carton, 18 by 26 inches in size which makes a very good facsimile of a deer's body, even though I never did see a buck with "Shredded Wheat" printed across its belly in large red letters. Set up among the sagebrush and snow of British Columbia hills in January, it looked astonishingly like a deer does in November.

Then I paced off 370 yards as close as I could in foot-deep snow—it would probably be a little over 350 by tape—took two .30-'06 hunting rifles and a hoarded 30 rounds of M2 service ammo, and started shooting.

I shot prone, but only 3-shot groups, since I was trying to approximate hunting conditions, not target ones. For the same reason, I did not adjust the sights for range but held high as one would on game. One rifle used was an obsolete Model 95 lever-action which remains a favorite of mine and has both peep and open sights. The other was a remodeled 1917 Enfield sporter with a 2.5 scope on it.

First two groups—one scope, one peep—were not so hot. In spite of knowing the range, I made the wrong allowance for bullet drop—which shows how open to error long-range shooting is—and got only one hit, each group, on the target. Second group with the peep, however, centered nicely—one low, though a possible gut-opener, and two solid hits. Size of group, measuring center-to-center of shot holes farthest apart, 10½ inches.

Tried a second group with the scope, but darned if I could do as well—got only two shots on the target, though both good ones. A third try, four shots, got only one hit, and I gave up in disgust. Maybe by then I was too cold to shoot well, for in-between I had tried out the open sight, and the best I could do with it, in two tries, was one hit out of three each time. Looked as if 350 yards was too far for it. When I put up a white aiming mark on the box and moved up to 200 yards, I got a group of three shots in five inches with open sights, by which time my ammunition was used up and I went home.

What does the 'test' prove? First and foremost, what all gun tests prove, that the results depend far more on the shooter than on the equipment. Thus, for me, the peep shot better than the scope, which is manifestly against rules.

However, it also corroborated what Townsend Whelen has often stated in print, that good aperture sights will give killing hits on big-game up to 350 years if the shooter does his part. Whelen, before he turned to scopes, had good satisfaction with iron sights on eighty-eight head of North American big game, often at long ranges. Leslie Simpson in Africa used to kill antelopes regularly for safari meat at 400 yards with a peep-sighted 30-'06 Model 95 Winchester—a fact which influenced me to buy mine many years ago. And many other practical hunters, both on this continent and elsewhere, have long been getting good results on game with aperture sights right up to the same range as I was shooting on that carton.

As for open sights, probably that five-inch group at 200 was a freak. But note that four out of the five shots on target at 200 yards in the preceding 'test' were in five inches, also. I suspect that open sights would give a good account of themselves on game up to well over 200 yards in the hands of a man who was used to them and skillful enough to shoot at those ranges. And most deer, moose, and black bear are shot at ranges well under 200 yards; I suspect most other big game also. I've only had, or seen, one shot over that range myself in twelve years in British Columbia.

What are the best iron sights? That's a big question. Too many of those who scoff at iron sights think only of the ordinary peep and round bead, the poorest of the aperture combinations, or, worse, of the same poor front and a buckhorn or V-notch open, worn till it glitters. The best iron sights are a different kind of cattle and, far from being obsolete, have shown some promising new developments in the last few years.

The front sight is of tremendous importance in iron sight work, and if yours is one of those glittering round beads, which will actually shoot several inches off to one side at 100 yards if the sun is shinning on the other side, do something about it. Flattening the face of it with a file will cut down considerably on variability, but better spend a couple of bucks on a new one.

Both Redfield and Dockendorff now make a square-topped post front sight with a gold bead, and the face of the bead is slanted slightly away from the shooter instead of being vertical, so it will catch all possible light. Being flat-faced, the bead won't glitter any more on one side than the other, and is much more reliable than a round bead.

Personally, I prefer a rather fine front sight. The usual 1/16-inch bead covers eight inches per hundred yards—Dockendorff's covers seven. I like it narrower still, and the slender steel blade on my old Model 95 covers only five inches per hundred yards. That means that at long range the sight stem doesn't cover all your mark when you hold high, and if you're a good enough shot to justify trying long-range shooting if any is offered you, I'd get a slender front sight. Dockendorff has a floating bead front which has no stem at all to hide what you're shooting at, and I use a similar sight, made by Watson of Toronto, Canada, on my .22. Watson's floating bead is very small, covering only four minutes; there is nothing underneath it to hide one's view of game, and for anyone old-fashioned enough to use iron sights for varmint shooting, it is the clear McCoy.

Whatever kind of front sight you use, learn how much the bead covers for every hundred yards and remember it as a gauge to judge distances. Then, if your 1/16-inch bead covers full depth of a deer's body, which is around 16 inches, you'll know it is about 200 yards away and aim accordingly. If the same bead looks twice the depth of the buck, then

he's 400 yards distant, and you'd better start stalking if you want more than track soup for supper.

Open sights are not my favorite, but if my shooting was in thick timber, consisting mostly of hurried shots at close ranges I'd be well pleased with the very wide very shallow V-notch that the British put on their elephant guns. With it I'd like a big ivory bead, 3/32 or ⅛-inch in diameter, for woods shooting.

For shooting at ranges over 150 yards, I'd prefer a finer front sight, and a flat top rear with a fine U-notch or—better still—a square notch. Dockendorff has recently come out with a dandy sight with square notch and an elevation screw that is a real micrometer—one minute per click. Such an innovation in cheap open sights is a big help in sighting-in a rifle, and it's such a simple device that you wonder why nobody thought of it before.

The top of almost all open rear sights is flat in cross-section, and the surface soon wears shiny, reflecting light in a way that handicaps accurate aiming. The shine can be largely done away with if the top of the sight is made to slope down away from the hunter (in cross-section) so that he looks over a sharp edge instead of a bar. If the notch also is a thin edge, without appreciable thickness in cross-section, it will show up more sharply too.

You can make over an open rear sight yourself in a half-hour of simple home gunsmithing, by sloping the top of it with an ordinary file, and thinning out the front of the notch —the side away from you—with a round or three-cornered file. The filing, of course, leaves the sight shiny and it must be re-blued. So mark the sight's position on the rifle, then drive it out from left to right—and remember, it must be returned the opposite way. Heat the sight in fire or flame to no more than dull red, dip it in oil, take it out, dip again —and you'll have it a glitterproof blue, and shaped to stay that way for a long time.

Of aperture sights there are many good makes—Lyman, Marble, Redfield, Williams, and others. The micrometer variety cost a few dollars more, and are worth the additional cost to the target shooter but for others the chief advantage of a micrometer sight is for sighting-in. The exactness of graduations on these sights simplifies the process considerably, but otherwise they are no great value to the hunter who usually gets his sights set for a certain range and then leaves them that way for years, holding over or under for other distances.

Target shooters use a disc screwed into a peep sight, but the big-game hunter will do better to take out the disc and aim through the large ring that remains. It seems to cover an awful lot of country, but don't worry, your eye will center the front sight in it accurately just the same, and it is far faster and easier to sight through than any disc. With a tang peep close to the eye, the ring looks so thin you can hardly see it, and it is the fastest of all sights for me. The same large ring on a receiver peep is almost as fast, and either one is much more accurate than you'd think—you can shoot groups with them within an inch as small as with a disc.

You may want a smaller aperture at times for shooting at a target, or for slow careful shots. Some of the Lyman sights have a turn-down insert that gives you a choice of two aperture sizes at the flip of a finger, which I like. Or you can carry a disc with a smaller aperture—not any smaller than 1/16, though. There are various good discs available with single apertures, and the Merit adjustable disc has a choice of openings always available. If you have any trouble seeing clearly through iron sights, a new item called the McRoy Lens Sight Adaptor may sharpen up the image for you satisfactorily.

So much for the sights themselves. Much more important in getting game is the shooting ability of the man behind them. Whether your sights are old or new, iron or glass, your best preparation for next hunting season is to buy an extra box or two of cartridges and try them out. Get an empty carton if you will—Shredded Wheat or not—set it up in wild country, and shoot at it from different positions, at different ranges, until you find out what you—not somebody else—can do with your gun and sights.

Practice like this will do more to get that buck or bull for you than all the sights in the world without it. ◆ ◆ ◆

That Sparrows Point Pistol Club

Continued from page 32

A member of the first team of LaMar, Leland, Marshall, and Lipscomb remarked that the team was on the road almost every week-end. Chief Miles says that any man with a family who likes to spend week-ends with it is not encouraged to shoot with the team, no matter how good he may be. A second team also fires in match competition regularly, but it does not travel as far or shoot in as many matches as the first team.

An inspector of Baltimore County police commented recently to Chief Miles that the Sparrows Point force was one of the finest equipped police organizations he has ever seen, and the force cooperates with other police organizations in the state.

The huge Sparrows Point outdoor range is used almost daily by the Police Pistol Club and frequently by Baltimore County Police, Maryland State Police, Anne Arundel County Police, and other law-enforcement agencies from localities nearby that do not have ranges of their own. Sparrows Point Police have trained men from Baltimore City, Baltimore County, and Anne Arundel County police as instructors for their own organizations.

Chief Miles is proud of his shooting organization of policemen. He feels that his men are far above average in their ability to use their sidearms, but he also recognizes that marksmanship training alone will not give him a strong versatile force. For that reason he is justly proud that his police force has been singled out as superior in other fields, also. Chief Miles feels as strongly about the value of first-aid training as he does of pistol shooting and insists that some of his personnel hold American Red Cross first-aid instructor's certificates.

Last November the Baltimore Sun newspaper published an article in the Sunday rotogravure section about the Sparrows Point Police. Titled "Dead-Eye Dicks," its point was that every member of the Sparrows Point police force is a deadly accurate shot with the revolver. Four days after the article had appeared, a patrolman on duty surprised a prowler, who tried to make a getaway after the policeman yelled halt. The patrolman fired once and the man fell, fatally wounded. Word got around among Sparrow Point citizens that the bullet had struck the heart. Not long afterwards, a fellow passing the police station stopped long enough to stick his head in the door and comment to Chief Miles, "I guess some of the boys just don't read the paper." ◆ ◆ ◆

knocking them flat

By Matt Grant

SOME HUNTERS, in speaking of the 'knock-down blow' of a rifle, are referring to the convulsive reaction of the animal hit due to the effect of the bullet on its nervous system, but there appear to be many who think that the 'knock-down-blow' is an actual physical push exerted on the animal by a 'powerful' bullet. Those who have studied Newtonian physics will, however, realize that the shooter must experience from recoil a physical knock-down effect at least equal to that dealt the deer, even if the animal were right at the muzzle and received the bullet with its full muzzle velocity. In the case of the ordinary shoulder rifle, the forward momentum of the bullet is almost exactly balanced by the rearward momentum of the gun, which must be absorbed by the shooter (any discrepancy due to the weight of the burning powder makes recoil the greater of the two forces). It is this fact that limits the usable power of shoulder arms and renders the quest for a rifle which will figuratively knock the deer into the middle of next week a futility. Any rifle which would 'knock-down' —that is, physically push over—a normally, stably standing deer of 300 pounds would do the same thing to the shooter—only twice as fast!

As some may find it difficult to accept equality of rifle recoil and bullet impulse, the matter can be investigated mathematically. The force in pounds exerted by a moving body while it is being brought to rest can be determined by dividing its momentum by the time in seconds required to stop its motion.

Bobby Feller pitches a baseball over its 60½-foot flight from the mound to the plate in 3/10 seconds, an average speed of almost 137 miles per hour, and the remaining velocity at the bat may be taken as approximately 100 miles per hour, or close to 150 feet per second. Let us now visualize the standard 5-ounce ball at 150 feet per second striking the clothed, but unpadded, body of a man on the chest, and preferably let that body belong to the umpire. Far from killing the umpire, it will only cause him pain, and he will probably call it a strike. Well, believe it or not, that blow is of greater force than that delivered by the best-killing .30-'06 bullet!

Here is the analysis. The 5-ounce ball travelling at 150 feet per second stopped by the body of a man will be assumed to indent that body to a depth of ½ inch. In coming to rest it travels ½ inch at this average speed; so, the time to travel this ½ inch (or 1/24 foot) is (2 divided into 150) 75 divided by 1/24, or 1/1800 second.

Momentum equals mass times speed. Mass is weight in pounds divided by gravity, or 5/16 divided by 32.2; hence, momentum equals 150 times 5/16 divided by 32, or 1.5 poundals.

The force of the blow or impact when a body stops the baseball in 1/1800 second is momentum divided by time, or 1.5 divided by 1/1800; that is *2700 pounds.*

When brought to rest, a missile (either ball or bullet) delivers its total momentum to the object struck. If the ball stops quickly, it delivers a high force for a short time. If it stops more slowly—that is, penetrates more deeply—it delivers a lower maximum push but that force lasts longer. The actual effect in moving the body struck is the same in either case, and is measured by the total momentum possessed by the missile. This is the principle on which the ballistic pendulum depends.

Now let's consider a bullet which stops very quickly and therefore has the greatest instantaneous push, which is of very short duration and so is called blow, shock, or impact—the 110-grain .30-'06 Hi-Speed with a muzzle velocity of 3,380 feet per second. The bullet weighs about 1/64 pound and has a velocity of 3,000 feet per second at around 70 yards, so its momentum is approximately 1.5 poundals, or the same as that of the baseball mentioned above. Therefore, it is only capable of moving (knocking) a deer as far as a direct hit by the pitched ball would. If the bullet *blows up* (expands greatly) and penetrates only six inches, it will come to rest in 1/3000 second and exert a momentary force or blow of only twice of a baseball. Experience with this bullet and such typical behavior has shown it to be the least effective killer of all the .30-'06 series, yet it delivers the greatest blow, shock, or impact of all .30-'06 loads. If it penetrated a foot, its impact would then be only equal to the baseball.

Now let us take the 220-grain soft point, agreed by most authorities to be the best killer of the .30-'06s. Muzzle

Fig. 1: The wooden 'deer' used in tests to determine mechanical force of blow, shock, or impact of 174-grain .303 bullet fired at 2,460 feet per second velocity. Deer was placed twenty feet from muzzle

velocity is 2,410 feet per second; velocity at 100 yards is 2,190 feet per second, and momentum at 100 yards is 2.2 poundals, nearly one and a half times as great as that of the pitched baseball. If this heavy, expanding bullet penetrates one and a half feet and comes to rest in the body of a 300-pound deer, it will stop in 1/700 second and give a blow or impact of some *1,400 pounds*, or only about half that of a baseball. Yet the 220-grain bullet is widely held to be the best killing .30-'06 load, good even for grizzlies.

Thus a bullet which is well known to be an ineffective killer delivers a four times heavier blow or shock than another bullet of the same caliber which is recognized to be an excellent killer. When the blow or impact of the latter is only half that of a well-flung baseball, it is clear that bullet impact or shock is not capable of killing a deer on any body hit, irrespective of anatomical parts damaged by penetration.

For the benefit of the skeptical who still think that a bullet's impact can physically knock a deer off its feet, I carried out a practical experiment with a wooden deer.

A box was obtained which held 158 pounds of beach sand; its measurements were 12x13x19 inches. Two well-braced legs were then fixed to one long side and one leg fixed to the opposite side, the one which would be nearest to the rifle. The length of the legs was such as to make the top of the box (or top-line of the deer) 44½ inches high. The empty box with legs weighed 23 pounds, and when filled with sand the total weight was 181 pounds. The center of gravity was 37 inches above the ground, and the distance from the projection of the center of gravity on the ground to the rear line of the supporting legs was 6 inches. This gives the same base and stability as a deer with feet 2 inches wide standing with feet centers 10 inches apart. The single front leg is all that is necessary, as when the deer is hit it rocks backwards on the two rear legs just as a four-legged one would. The single front leg merely being a support in the condition of rest, three legs are simpler to level. The above specifications are close enough to those of many deer so as to make the wooden deer a fair test—certainly the weight is conservative. In addition to the box, a separate rigid standard was made in order to hold a stationary spring-loaded pencil, which, by bearing on a white card tacked on the end of the box, would make a record of the box movement when struck by a missile. This standard had a large flat foot so that a 20-pound bucket of sand could be placed on it to hold the standard firm. The pencil holder was attached to the standard at the height of the box's center of gravity.

Fig. 2: Mechanical force of recoil was tested also. Butt of rifle was held against center of gravity of wooden deer and fired by pressing trigger and trigger guard together to avoid pressure due to trigger release

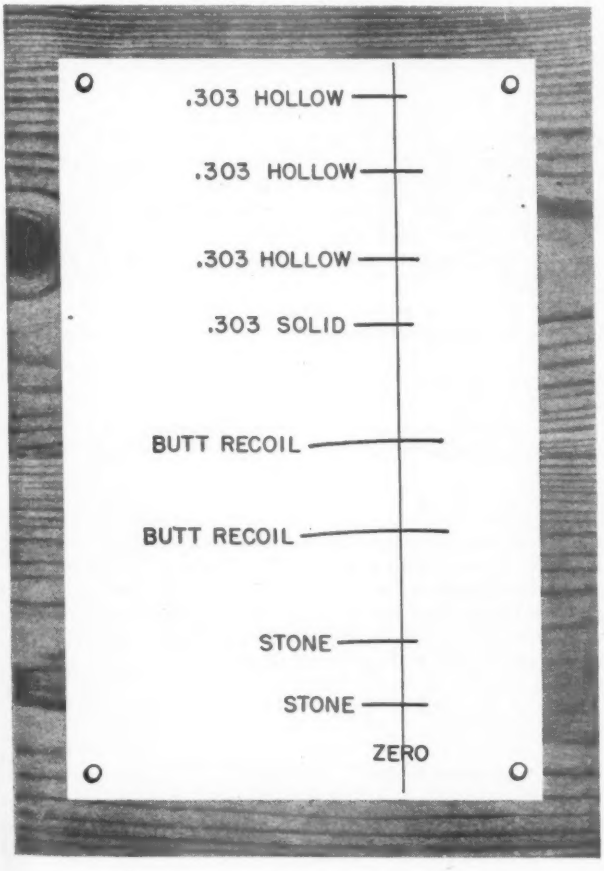


Fig. 3: Graph showing movement of wooden deer from force of bullet, butt, and thrown stone. Lines to left of zero indicate movement of wooden deer from striking force of objects, and lines to right of zero show forward sway of deer in returning to rest after being hit

This apparatus was set up on a rifle range, on firm ground, and levelled and is shown in Fig. 1. Fig. 2 shows a close-up of the box and the recording pencil. There is a vertical line on the graph marked 'Zero' and the pencil point was adjusted exactly on this line before each shot. On the front of the box was a target with the bull exactly opposite the center of gravity of the box.

The firing point was 20 yards from the box to avoid possibility of richochet or splash, and square with the box front. The line of fire was almost horizontal (slightly upwards, in fact, from the sitting firing position). Four shots, three hollow point and one solid point, were fired and each struck within one inch of the center of gravity of the deer. The rifle used was a .303 British (Mauser action) with 174-grain

bullets at 2,460 feet per second, almost the same as the .30-40 Krag. After each shot, the graph card was moved up ½ inch to give a separate tracing for each shot, the box was also relevelled, and the pencil point adjusted to the Zero line.

Strangely, in consideration of the numerous published accounts of animals being "knocked down by the force of impact," the box was not knocked over; in fact it could not be noticed to move at all from the 20 yard firing point. The graph showed four very even and consistent tracings averaging less than ¼ inch movement of the wooden deer in a backward direction. The bullets penetrated less than nine inches into the sand; their "energy all being absorbed within the animal" in the approved manner.

Next the equal reaction–recoil theory was tested. This was done by holding the heel of the butt lightly pressing against the box on the center of gravity of the wooden deer and firing the horizontal rifle by pressing the trigger and the trigger guard between the finger and thumb, so avoiding pressure on the box due to trigger release. This test is illustrated in Fig 2. This test was repeated, but on the second trial the rifle was held barely touching the box. The graph recorded .5 inch and .6 inch recoil for each shot respectively. Here again the Newtonian theory was conclusively upheld, though it was not expected that the powder charge effect together with the loss of bullet momentum over 20 yards would be so marked.

To round off the experiment; to tie up with the baseball theory; and to show that bullet impact is not as great as many shooters think, a 2½-inch diameter stone was twice flung at the box from 10 yards distance. The first hit about 6 inches on the graph end of the box and rather high. The second, flung with less force in order to gain accuracy, hit within one inch of the center of gravity. The tracings were respectively .4 and .25 inch. The flung stone caused as great a movement as a Krag bullet from 20 yards! And I'm no Bobby Feller!

The graph of all these eight tests is shown in Fig. 3. The vertical line marked Zero is the line on which the pencil point rested before each shot. The longer arc on the left of the line is the movement caused by the impact of bullet, butt, or stone, on the deer; the shorter arc on the right of line was scribed when the deer oscillated back past its stable position on the return stroke. Notice the uniformity of the arcs drawn by each of the four bullets, leaving no question about the consistency of the testing apparatus. This is important in comparing the recoil and stone effects with that of the bullets, and the consistency of the bullet tracings (things known to be the same) dismisses any doubts on the point.

The two witnesses of the tests (shown in Fig. 1) agreed with the author that the experiment conclusively proved that:

1) An object similar to a stably standing deer cannot be knocked over, or even be seriously disturbed in equilibrium, by the mechanical impact of a Krag bullet (even at 20 yards).

2) The recoil of a rifle is greater than the impulse transmitted by its bullet, and therefore no usable shoulder recoiling rifle can knock over an animal approaching a man in weight—even at the muzzle.

3) A handy-sized stone (or a baseball) when flung well has as great an impact as a Krag bullet.

What then, may be asked, happens to the "more than a ton" of energy which the bullets undoubtedly possessed? The answer is very simple—though you won't find it in ballistic tables.

All mechanical energy, particularly losses, is eventually dissipated in heat. A bullet, being so light and fast, is a very inefficient mechanism for transmitting kinetic energy unchanged. The missing 2,000 pounds of the bullet's kinetic energy is simply dissipated in heat while the bullet is expanding or penetrating. In the case of a struck animal, it is rupturing tissues—and it is this, not the impact—which causes a wound which may or may not kill the animal, depending solely on how vital those particular tissues are to survival and not, providing there is a modicum of penetration, on the amount of energy.

Further the amount of energy, say 2,000 foot pounds, is not as great when translated to heat energy as it actually is in the animal. It is equal to two British Thermal Units, that is enough energy to raise 2 pounds, or 1½ pints of water, 1 degree Fahr. Since, in boiling water we start at 60 degrees F. and finish at 212 degrees F., a difference of 152 degrees—only 1/150 of the energy required to boil coffee for two! Or, if you take a ½ ounce of boiling water, dilute with an equal quantity of cold and toss it down as you would a whiskey, your will have absorbed, in very little more time, all the energy a deer takes when hit with an expanding Krag bullet! Do you still consider that that is fairly described—as in an ad several years ago—as "a ton of smashing, shocking, stopping 'wallop' "? ◆ ◆ ◆

NEXT MONTH—*C. M. Palmer, Jr. conducts the first of two classes on the fundamentals of wingshooting, illustrating it with excellent photographs of the technique of using the shotgun in the field. Gerald L. Hutton presents one side of the argument, revolvers vs. automatics. Archibald Rutledge recounts an interesting hunt, Southern style with dogs, horses, and drivers, for a stag at Jasper Hill. Webster P. Taylor pictures the technique of gunsmith Curt Beyer of St. Louis, Missouri in a how-to-do-it article on making pistol grips.*

What About Featherweights?

Continued from page 23

Military & Police, numbers 6 and 7; an experimental M&P with a thinner frame, in three different weights, numbers 8, 9, and 12; and three different weights of the smaller and lighter 5-shot Chief's Special, numbers 10, 11, and 13.

Handgun number 6 has aluminum alloy frame and cylinder and the square butt target grips, and weighs 16 ounces. This gun, which was nicknamed "Fat Smith", was too bulky for aircrewman's use, so Colonel Allen sanded off the end corners of the square butt to the shape shown in the picture. The big bulky grip seems to give excellent control, but the space behind the trigger guard is filled sufficiently to cause the gun to ride rather high in the hand. This feels very good indeed when aiming, but on recoil the gun has quite a leverage tending to rotate it upward and backward, and the result was that the high standing part of the grip stung my hand severely at each shot. To me, this was the only gun of the entire assortment that was unpleasant to shoot, and this in spite of the fact that I have always by choice used a filler of this kind on all my heavy target revolvers. I can see now, after my experience with this lightweight gun, that for me, at least, such a filler has its disadvantages, but neither Colonel Allen or Al Barr found this gun unpleasant to shoot.

Gun number 7 is a similar regular frame M&P with aluminum alloy frame and cylinder, and the regular round butt and high grips. It weighs 15½ ounces, and is very pleasant to shoot. We nicknamed it "Regular Smith".

It will be seen from the photo, that the S&W M&P models have frames that are deeper from top to bottom than those of the Colt Detective Specials, and the S&W frames are also thicker from side to side. They thus seem bulkier, and after Colonel Allen commented on that, Smith & Wesson made up the three experimental guns numbered 8, 9, and 12. The frames are still just as deep as before, but are thinner, thus removing about 1¼ ounces of weight. We called these three "New Type Smiths." Number 8 is all steel, and weighs 25 ounces. It has the usual round front sight, and had the standard, or low type grips, and for that reason was quite uncomfortable to shoot. Gun number 9 has a steel frame and barrel and an aluminum alloy cylinder, and weighs 22 ounces. Its mate, number 12, with both frame and cylinder of aluminum alloy, weighs only 14¼ ounces, and seems a much better bet for the Air Force use. It has high stocks and a ramp front sight.

The fine little Chief's Special 5-shot guns are numbered 10, 11, and 13. Number 10 is steel, weighs 19 ounces. Number 11, aluminum cylinder, weighs 16 ounces. No. 13, aluminum alloy frame and cylinder, ramp sight, weighs 10½ ounces.

We found our time, our endurance, and our ammunition all limited to some extent, so that we picked out the most likely candidates and concentrated on them, leaving out several guns that didn't seem quite so important. Those not fired, and the reasons, were as follows. First, the Colt Detective Special (No. 4) with aluminum alloy frame, but steel cylinder and barrel. Reason, it seemed to us that the lighter version was more desirable; it had already been chosen for limited purchase for test by the Air Force in preference to the other Colt. Second, the "Regular Smith" (No. 7). Except for the slightly thicker frame, and the extra 1¼ ounces of weight, it was the same as the lightweight "New Type Smith", which seemed even better. Third, the intermediate weight Chief's Special (No. 11).

When the smoke had cleared away, we found ourselves in possession of the following average accuracy results:

Gun	*Weight*	*Average score*	*Average group mean radius*
Colt Detective Special, Lightweight 6 shot	11¾ ozs.	81	3.9 inches
"Fat Smith"	16 ozs.	84.5	3.05 inches
New Type Smith, Heavyweight 6 shot	25 ozs.	85.5	3.05 inches
New Type Smith, Mediumweight 6 shot	22 ozs.	88	2.7 inches
New Type Smith, Lightweight 6 shot	14 ozs.	86	3.0 inches
Chief's Special, Heavyweight 5 shot	19 ozs.	85	3.0 inches
Chief's Special, Lightweight 5 shot	10½ ozs.	76	4.7 inches

Probably these results do not mean too much. For one thing, they are the result of a very limited test. For another, conditions were not the best, and they were changing rapidly. At times it was calm and overcast, while at other times a heavy wind was blowing. However, the shooting did tell us several things. One was that the recoil of these very light guns was nothing to worry about. It was very much less than had been expected.

Another thing that was very apparent was that all of the guns were inherently accurate. We got some wide shots, it is true, but practically every one was called. We did notice that the greatest possible attention to the sight picture is necessary with these short-barreled guns, for any noticeable deviation of the front sight in the notch was immediately paid for by a wide one on the target.

To add to the number of opinions, we let several experienced shooters fire these guns and give us their reactions. It was noticeable that there was no uniformity of choice; some liked one gun and some another, though all did agree on one thing, and that was the finding that the shape and size of the grips had a lot to do with the comfort of shooting and the ability to control the groups. All who shot these guns felt that of the two Colts, the one with Col. Allen's high grips, even though it was lighter in weight, was easier on the hand than the one with the low grips (No. 4).

Similarly, the heaviest S&W of all, number 8, an all-steel model with low grips, was hardest on the hand in spite of its weight, simply because the sharp corners of the frame were in contact with the hand. Thus the shape of the grips was of more importance than weight in controlling recoil.

Again, I found that the large grip "Fat Smith" stung my hand, while I had no trouble with the little 10½-ounce Chief's Special; but a Colonel who happened by while Col. Allen was shooting tried the same guns and liked the "Fat Smith", but complained that the little Chief's Special was very unpleasant for him to shoot. The back of the trigger guard rapped his knuckle, and when he tried to curl his little finger under the trigger guard, as I do when there is not enough room behind the guard, he did not have enough grip to hold on to. But he had an unusually large hand.

This apparent variation of opinion shows the wisdom of Col. Allen's recommendation that the Air Force purchase a limited quantity of all three types of lightweight revolver for service evaluation as an aircrewman's sidearm. The guns being bought are the lightweight models with aluminum-alloy frame and cylinder in the Colt Detective Special, the six-shot S&W thin-frame M&P, and the five-shot S&W Chief's Special.

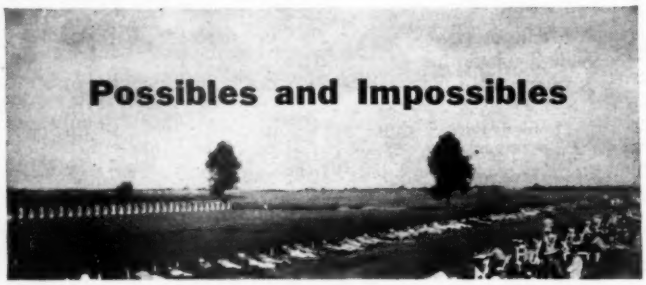
There is one thing that all our readers should remember, and that is that these lightweight revolvers were made up specially for the Air Force, and that, as far as the commercial market is concerned, they are experimental. ◆ ◆ ◆

A PAPER FOR PEOPLE WHO SHOOT

Rifle

Remington

VOL. 14, NO. 8 BRIDGEPORT, CONN. AUGUST



The ballistician sometimes does some queer things to solve the mysteries of guns and ammunition so that the information obtained can be used for the further improvement of performance in the field and on the firing line.

In an effort to find out what can be done to improve accuracy performance, it is sometimes desirable to find out what can be done in order to spoil the accuracy of a gun. By this apparently "backdoor" approach, researchers are able to discover what factors are of importance and also what factors are not important, thus avoiding a great deal of work in trying to improve something which basically has relatively little affect on the performance of the gun.

A series of experiments was performed by Remington physicists to determine what constitutes real damage. It was learned that guns really are tough, and that it isn't as easy to ruin a barrel as one might think. Regardless of the results of these tests, it is not recommended that the shooter take any less care of his pet gun than he now does. However, the results of these tests are so interesting, not only from a scientific standpoint, but from the standpoint of general shooter information, that it is considered worth passing along the results.

Assume that some wicked little gremlin decides that he can wreck your scores by cutting 6" off the muzzle end of your 28" barrel. Chances are he would be wasting his time. Laboratory tests at Remington have confirmed this fact and in addition there are top-notch shooters who regularly use barrels from 18½" to 24" in length with excellent results.

Suppose a 40 grain lead bullet were lodged 10 inches from the muzzle of your favorite rifle and a "Hi-Speed" 22 long rifle fired behind it. In this test, the barrel our physicist used swelled .003" with, of course, a definite internal ring. After cleaning the barrel it was found to group 0.98" at 100 yards. Prior to this violent treatment, its extreme spread was 1.13".

Following this, a thread cutting tool was used to cut rings eccentrically inside another barrel to a maximum depth of .0015" to .0020". Before mutilation the barrel averaged 0.82" extreme spread at 100 yards. After 6 equally spaced rings were cut in the last inch of the muzzle end the accuracy was 0.89". After 5 more rings were cut between the previous rings the accuracy was 0.86". Adding another ring, one inch from the breech, showed an average grouping of 0.85".

Further tests were made, such as (1) cutting an .007" ring in the chamber just ahead of the case mouth; (2) polishing .0005" off the bore just inside the muzzle; and (3) dropping a red hot metal ring over the muzzle so that it would catch up on the external barrel taper and, when cooling, shrink and make a permanent slight constriction in the bore. These tests, especially the first would have brought joy to the heart of any gremlin for, unlike the first three experiments, they resulted in a really serious impairment to accuracy.

It should be emphasized that none of the experiments described above is in any way to be used as an argument for relaxing the care presently exercised in connection with the maintenance of match rifles. The fact that some of the figures above were, after mutilation of the barrel, slightly smaller than before cannot, of course, be interpreted to mean that the performance of the barrel was improved by this treatment. However, they do indicate that some of the ideas as to what constitutes sure-fire damage to a rifle may be far from correct.

RECORD TURO
CAMP PERR

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You can keep your budget as trim as your shooting with the economi "500 Series" Remington 22 rifles. Snuggle one against your cheek. Imag having a pesky varmint in your sights . . . or the fun you'll have plinking. Then look at the price tag, and you'll know why more va tioners than ever are packing Remington "500 Series" 22's this year.

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"Palma," "Kleanbore," "Targetmaster" and "Hi-Speed" are Reg. U. Pat. Off. by Remington Arms Company, Inc., Bridgeport 2, Connecti

AROUND OUR CLUB . . . . . The Snap S

HOW D'YA LIKE THAT? A PALM REST MADE OUT OF A CAMERA TRIPOD!
VERN GETS LAZIE EVERY DAY. NEXT HE'LL BE ATTACHIN
THIS KIND OF RIFLE SHOOTIN' REALLY IMPROVES MY SCORES.
CAMERA WITH A TELESC LENS SO'S HE WONT HA TO RETRIEVE TARGETS!
HOERNLEIN

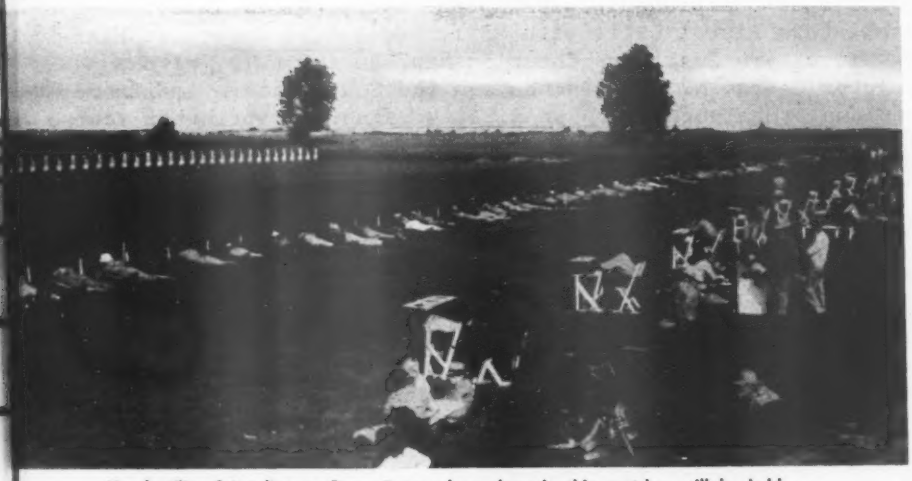
...nton News

WEATHER:
PLENTY OF MIRAGES FOR EVERYONE

...CO... AUGUST, 1951

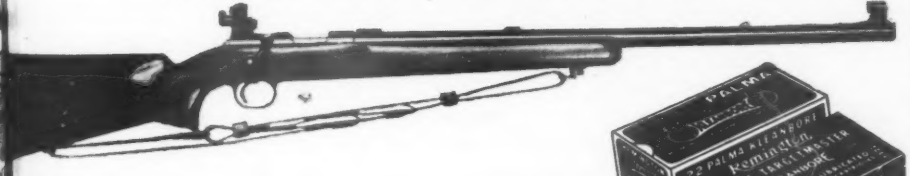
First Class Reading Matter for Rifle and Pistol Shooters

...ROUT ANTICIPATED FOR ...RY CHAMPIONSHIP MATCHES



The familiar firing line at Camp Perry where championship matches will be held

...ODEL 37 AND REMINGTON MATCH AMMUNITION PROVIDE PERFECT TEAM FOR TIGHTER GROUPS



...idgeport, Conn., Aug., ... For consistently tight ...ps you need a consistently ...urate rifle, Remington ...el 37. Long a favorite of ...-scoring shooters, Model 37 ...proved itself in thirteen ... of match competition. ...ery possible refinement is ... into a Model 37. And ... rifle that leaves the fac- ... is perfect, finished like a ...watch, accurate as govern- ... time.

...u can prove this to your- ...by trying one. The first thing you'll notice is the fine finish. It's a beauty. Then try the balance. It's natural and easy from every firing position.

But the miracle trigger is the biggest treat of all. It's smooth and crisp, with no sign of back-lash. It's easily adjusted to whatever weight you like and stays set without variation.

And to see this fine rifle at its best, shoot precision made Remington match ammunition. Whether your choice is "Palma" "Kleanbore" or "Police Targetmaster" you're assured the ultimate in accuracy. All Remington match ammunition must pass precise tests by Remington ballistic experts.

Why not team up a Model 37 and Remington match ammo. . . . and see how good you really are!

6-DAY MEET OFFERS FULL SCHEDULE

Camp Perry, Ohio, Aug. 1951 —Some 600 shooters from all parts of the country are expected to set a post-war attendance record here when the Camp Perry Championship Matches get under way August 29. The Ohio Rifle and Pistol Association is host to the 6-day classic, which will be in the best tradition of the Camp Perry of old.

A complete schedule of Small Bore matches will be held Aug. 29 through Sept. 3. Included will be 200-yard and state team competitions. The high power matches will be on Aug. 25, 26, and 27, and Pistol on Sept. 1, 2 and 3.

A special Labor Day aggregate is planned for shooters who cannot be present for the full competition. The list of medals, prizes and trophies is impressive, and all signs point to another of the successful shoots for which Camp Perry is famous.

Facilities Enlarged

In preparation for the record crowd, the dining room is being enlarged, the club house will be open, and movies are planned. Your friends from Remington will be on hand in the event you have any questions. And, of course, dependable Remington match ammunition will be available on the firing line.

Free cots, quarters and mattresses will be provided for registrants, and there's good news for wives. The O.R.P.A. invites them to enjoy nearby beaches, fishing and golf. Families will be assigned separate cabins.

THE SPOTTING SCOPE -- August 1951

Major General Merritt A. Edson, new Executive-Director, spent last month in the NRA office familiarizing himself with the internal operations by which the Association services its members. He will begin his travels this month to meet as many Association members as possible. . . . J. Hammond Brown, outdoors editor of the Baltimore Sun, was reelected President of the Outdoor Writers of America at the writers' Michigan convention. . . . The Boy Scouts magazine, Boys Life, is now conducting its 1951 Daniel Boone Target Shoot. The match can be fired any time between now and October 31 by any member of a registered Scout Troop or Explorer Unit, as well as by any reader of Boys Life who is a member of an NRA junior club. . . . Since the search for the "One of One Thousand" Winchester Model 1873's was started last year, 33 have turned up. Only 135 "One of One Thousand" were produced out of a total of 720,610 Model 1873's. . . . Marine Master Sergeant T. R. Mitchell, of Quantico, won the Eastern Pistol Championship with a 2559 score, W. T. Toney, of San Antonio, Texas, the Southwestern Pistol title with 2591, and Robert Spahr, of Highland Park, Illinois, the Midwestern Smallbore Championship, during July, with a 3173-205X. . . . NRA Director George R. Whittington won the Southwestern smallbore regional over current national smallbore champion R. E. McMains. Whittington scored 3187-205X to McMains' 3185-227X.

The Quantico Marine 4-man .45 Caliber Pistol Team broke the National Match course record twice in July. Made up of M/Sgt. T. R. Mitchell, Capt. J. M. Jagoda, CWO Mark Billing, and Sgt. W. W. McMillan, Jr., the squad posted a 1150 at Sparrows Point, Md., early in the month and then a 1157 at Harrisburg, Pa. during the Regional Championships. The old record of 1140, held by the Detroit Police, had stood for 10 years. . . . Captain John Scofield, managing editor of the RIFLEMAN on leave with the Army, is now in Palestine as part of the American delegation of the United Nations Peace Mission. . . . Captain Tommy Thomas, familiar figure at Quantico for a good many years, recently returned from Korea to recover from three grenade wounds. . . . Executive Committee member Marvin Driver, high Detroit police official for several years, recently resigned to become Chief of the Allen Park, Michigan, police force. . . . Arthur Cook and Art Jackson, both now Air Force lieutenants stationed at Lowry Field, Denver, are cleaning up in Rocky Mountain smallbore tournaments, but it's touch-and-go until the last score is posted and no one will bet on one winning over the other. . . . Ed Bridgman, popular NRA staff member, is now home resting for a few weeks. A routine checkup disclosed Ed was a tired man. . . . The Pennsylvania House of Representatives has passed with minor amendment the NRA-suggested air-rifle bill and sent it on to the State Senate. The bill controls the misuse of air rifles, instead of prohibiting the sale and manufacture of the guns.

The National Conference of Commissioners on Uniform State Laws has withdrawn its backing of the "Uniform Pistol Act" which NRA members this year successfully opposed in Illinois, Tennessee, New Hampshire and Pennsylvania. Among other things, the act would require target shooters' licenses and would restrict target pistols to those having a minimum barrel length of six inches. . . . The Commercial Row exhibit in the St. Francis Hotel from October 6-12 during the NRA Convention in San Francisco will be the largest in history. Over sixty companies will show their wares. . . . Entries for the National Championships are starting to flow in. Early returns indicate the biggest championships since the prewar-Perry days. The Marines at Camp Matthews, California, hosts of the High-Power title races, are going all out to make their end of the show a big success. San Francisco officials, hosts of the Smallbore and Pistol Championships, not to be outdone, are rallying citizens of the Golden Gate to welcome contestants in a big way. Everything has been done to stage the greatest show any NRA member has ever attended. Make a point to be there.

Paul Cardinal

High Power Rifle and Pistol Shooters to Compete for 'Legs' on Distinguished Medal

This year the National Individual Rifle Match will be fired in conjunction with the NRA National Rifle Championships at Camp Matthews and the National Individual and Team Pistol Matches will be fired during the NRA National Pistol Championships in San Francisco, though complete details have not been released by the Armed Forces. In these matches civilians and service personnel compete for 'legs' on the coveted Distinguished badges. The basis on which legs will be awarded this year has not been announced, but they will be part of the award schedules in both National Individual and Team Pistol Matches and in the National Rifle Match.

The conditions of the matches are:

National Individual Rifle Match

Location: Camp Matthews, California.

Date: September 30, 1951.

Who May Enter: Any citizen of the United States 16 years of age or over.

Entries: To be made at Camp Matthews Statistical Office by 6:00 P.M. Friday, September 28.

Entry and Registration Fee: None.

Arm to be Used: The M1 Service Rifle (Garand) as issued and with trigger pull of not less than 4½ pounds.

Ammunition to be Used: Government Issue. Will be issued to competitors on the firing line. None other may be used.

Course of Fire: 10 shots slow fire (1 minute per shot), from military standing position, sling in parade position, 200 yards. 10 shots sustained fire (50 seconds time limit), sitting or kneeling from standing, 200 yards. 10 shots sustained fire (60 seconds time limit), prone from standing, 300 yards. 20 shots slow fire (1 minute per shot), prone, 600 yards.

Targets to be Used: The military A target will be used at 200 and 300 yards. The B target will be used at 600 yards.

MEMBERS, DIRECTORS MEET

The annual meeting of the members of the National Rifle Association for the election of Directors and to conduct such other business as may be properly presented, as provided in the Bylaws, will be held in the Sir Francis Drake, San Francisco, California, October 10, 1951, at 2:00 P.M. All NRA members have the privilege of the floor. The right to vote is limited to Life and Endowment Members, Benefactors and Patrons.

The annual meeting of the NRA Board of Directors will be held in the Sir Francis Drake, October 12, 1951, at 9:30 A.M., as provided in the Bylaws of the Association. The purpose of this meeting is the election of officers for the ensuing year, and the consideration of such other business as may properly come before the board.

National Individual Pistol Match

Location: Police Range, San Francisco, California.

Date: October 2, 1951.

Who May Enter: Any citizen of the United States 16 years of age or over.

Entries: To be made at the San Francisco Police Range Statistical Office by 6:00 P.M., Sunday, September 30.

Entry and Registration Fee: None.

Arm to be Used: Pistol, U. S., Caliber .45 M1911 or M1911A1, having not less than 4-pound trigger pull, issued by the Army Ordnance Department, or the same type and caliber of commercially manufactured pistol, privately owned, which must be equipped with fixed sights, the front sight, blade type (not undercut), and the rear sight an open U or rectangular notch, and issue or factory standard stocks. Except as indicated above, the parts of the pistol may be specially fitted and include alterations which will improve the functioning and accuracy of the arm, provided such alterations do not interfere with the functioning of the safety devices as manufactured.

Course of Fire: National Pistol Match Course.

Ammunition: Government Issue. Will be issued to competitors by range personnel. None other may be used.

National Pistol Team Match

Location: Police Range, San Francisco, California.

Date: October 2, 1951.

Team Eligibility: Teams of four firing members (each team shall have a team captain who may or may not be one of the four firing members, and each team may have one alternate if desired) from the following:

1. Civilian and Police:
   a) One team from each National Rifle Association affiliated rifle or pistol club.
   b) One team from each regularly organized municipal, county, state, and federal law enforcement agency in the United States.
2. The Armed Services:
   a) One team each from the Army, Navy, Marine Corps, Air Force, and Coast Guard.
   b) One team from each division of the Army, Marine Corps, federally recognized National Guard, Organized Reserves of the Army and Marine Corps.
   c) One team from each regiment or separate battalion of the Army, Marine Corps, federally recognized National Guard, Organized Reserves of the Army, and the Marine Corps Reserve.
   d) One team from each post, camp, or station of the Army, Marine Corps or Coast Guard; each Navy yard complement; and each air base of the Air Force.
   e) One team from each major air command and each numbered air force.
   f) One team from each Reserve Wing or comparable organization of the Air Force Reserve.
   g) One team from the Naval Reserve (surface unit) of each Naval district and the Marine Corps Reserve of each Marine Corps reserve district.

Entries: To be made at the San Francisco Police Range Statistical Office by 6:00 P.M., Sunday, September 30.

Entry and Registration Fee: None.

Arm to be Used: Same as for National Individual Match.

Course of Fire: National Pistol Match Course.

Ammunition: Government Issue. Will be issued to competitors by range personnel. None other may be used.

Programs on all 1951 NRA National Championships are being issued at regional tournaments. Copies may also be obtained from the National Rifle Association, 1600 Rhode Island Avenue, N. W., Washington 6, D. C.

BENCH REST PLANS

Construction plans for building a bench rest (permanent, range type) are available from the National Rifle Association Washington office. These plans cover building of a bench rest to accommodate either the right or left hand shooter. The plans have been approved by The Bench Rest Shooter's Association.

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SCOPE MOUNTS. Griffin & Howe, $19.50. Redfield Jr., $12.50 to $19.50. Buehler, $16.50 and $20.00. Tilden, $16.50. Mykrom ¾, ⅞, 1, $14.85. O'Dell's Scope Mount for pistol cases, $4.50.

WILSON SHELL TRIMMER

Compete with 1 shell holder and burring tool, $12.00. Primer pocket reamer, $4.50. Inside neck reamer, $5.50. Cartridge case gauges in following calibers: .220S, .257R, .270 and 30'06, each $4.50. Punch and base sets for removing crimped-in primers (.30 cal. only). $2.00.

IDEAL EQUIPMENT. Shot shell loading sets, 12, 16, 20 ga., $29.50. Star crimpers, $16.50. #310 Tong tools, $11.50. #55 Powder Measures, $12.50. #45 Lubricator and Sizer, $14.50. Full length sizing dies, $5.00. Primer pocket reamers, $2.50. Single cavity molds, $7.50.

PACIFIC TOOLS

Super, complete for one caliber	$42.50
Standard, complete for one cal.	34.65
Sizing and seating dies with or without crimper	12.50
Shell holders (except .22 Hornet and .222 Rem.)	4.25
Auto primer feeds (Super)	6.50
Extra primer feed tubes	2.75
Powder funnels .22, .25 and .30 cal.	.80
Powder scales	8.95

REDDING POWDER & BULLET SCALE $11.95

JACKETED BULLETS Prices per 100.

SIERRA .224 H.V. 45, 50, 55 gr. Spitzer S.P., $2.75. .224 H.V. 45, 50, 55 gr. Round nose S.P., $2.75. .223 or .224, 40, 45 gr. Hornet S.P., $2.25. .257 cal. (87 gr. H.V., $3.75). (100 gr. H.V., $3.85). 117 gr. H.V., $4.00. .270 cal. (130 gr., $4.50). .30 cal. (125 gr., $4.25), 180 gr. B.T., $4.75. ABC Bullets, .270 and .30 cal. in stock. Same as Sierra prices.

NORMA AMMUNITION

	Per 20
6.5x53 Mannlicher 156 gr. softpoint	$4.60
6.5x55 Mauser 156 gr. softpoint	4.50
6.5x55 Super Match, full patch Spitzer, 139 gr.	4.50
8mm Danish Krag (rimmed) 196 gr. softpoint	4.95
8x57 Mauser, 124, 159 & 196 gr. softpoint	3.75
8x57JR Rimmed Mauser, 196 gr. softpoint	4.95
8x60 Mauser, 196 gr. softpoint	4.95
9mm Luger 116 gr. M.C. (per 50)	4.75
9.3x57 Mauser, 285 gr. softpoint	5.50
9.3x62 Mauser, 285 gr. softpoint	5.50
9.3x72R Rimmed Mauser, 291 gr. softpoint	6.80
9.3x74R Rimmed Mauser, 285 gr. softpoint	6.80

Norma Jacketed Bullets:	Per 100
6.5mm Super Match 139 gr. full metal jacket	$4.95
6.5mm Mannlicher 156 gr. softpoint	4.60
7mm Mauser 156 gr. Spitzer softpoint	4.80
8mm Mauser 150 and 196 gr. softpoint	4.80
9mm Luger 116 gr. S.P.	3.95
9mm Luger 116 gr. M.C.	3.20
9.3mm Mauser 285 gr. softpoint	4.75
30/06 Super Match (full patch) 180 gr. Spitzer boat-tail	5.25
Norma New Primed Cases (BERDAN) (Available in quantities of 20 or more)	
6.5x53 Mannlicher (per 100)	$ 9.50
8x57 JR (per 100)	12.00
9.3x74R (per 100)	14.00
9mm Luger (per 100)	4.95

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ESTABLISHED DEALERS AND GUNSMITHS
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In Calif., add 3% Sales Tax

KERR'S 9582 Wilshire Blvd. Beverly Hills, Calif.

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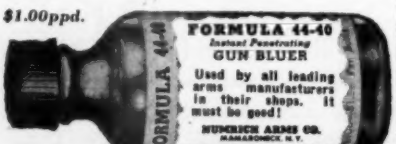

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OBSERVATION TELESCOPE
- 70 MM Clear Aperture
- 22 Power—Only $49.95

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PEEP SIGHTS

PEEP SIGHTS for Krag and Enfield Rifles, $1.50 each. Elevation and windage. Anyone can mount. Spring Adjustable Barrel Bands, 75¢. Krag Barrel Fillets, 65¢. Springfield Sporter Butt plates, 70¢. Grip Caps 40¢. Ramp Sights $1.50. Swivels 50¢. Free leaflet. Life Member N.R.A.

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Black Walnut blocks for carving your own grips. Inletting practically complete, full instructions with each pair. Screw and escutcheons furnished. Made for all S&W and Colt revolvers, $1.75 per pr.—Two pr. $3.00. Postage 10¢ ea. pr. Stamp brings Free Circular which lists prices completed grips, inletting your wood, etc.

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without a trace of muzzle blast

You'll get more accuracy from your "big-bore" than you ever thought possible by banishing that punishing kick and disconcerting blast forever with the new **SHA-CUL Muzzle Control Tube.** Fits any rifle, any caliber. Costs only $12.50. (Installation $3.50 extra.) See your Dealer, or ship barrel and action to us. Dealers write. See large ad p. 74, Nov. 1950.

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EL PASO, TEXAS
Write for Catalog

NATIONAL MATCH ENTRY

All competitors in smallbore and pistol regionals who wish to enter the National Matches should send completed entry cards to the NRA Washington office without delay. Final entry closing dates are: 1951 Smallbore National Matches—August 27. 1951 Pistol National Matches—August 20.

Any high-power rifle shooter may enter the National High-Power Rifle Championship Matches. Programs and entry cards will be available at all high-power regionals and are available from the NRA office. Competition in a high-power regional is not necessary for eligibility in the 1951 High-Power National Matches. Final entry closing date for the 1951 High-Power Rifle National Matches is September 10.

THE DCM SAYS—

NRA members may send a mailing label from their AMERICAN RIFLEMAN in place of the individual NRA Membership Card when ordering supplies. This will allow an NRA member to retain the membership card in his possession and will make it more convenient for him to register in tournaments.

Club secretaries are cautioned to be particularly careful to indicate the number of members in their club on the order form when requesting the purchase of club ammunition. This information is required by the DCM and its absence may cause delay in processing the requisition.

NRA members and affiliated clubs are cautioned about mailing DCM purchase orders and other DCM forms. Many of these forms are mailed to the NRA. Such mailing only delays action and makes it necessary for the NRA to forward the forms on to the DCM. All DCM forms should be mailed to:

The Director of Civilian Marksmanship
Department of the Army
Washington 25, D. C.

.30 CALIBER PRIMERS

The sale of .30 caliber primers by the DCM has been suspended. Orders received to date greatly exceed the quantities available in ordnance arsenals. This explains why many NRA members have not yet received their orders.

It is expected that a new supply of primers will be available this fall. Orders on hand will be filled as primers become available, in the order in which received. Announcement will be made in THE AMERICAN RIFLEMAN when the sale of .30 caliber primers is resumed.

NRA members are requested not to write to the DCM about primers unless they wish to cancel orders previously submitted.

NRA INSTRUCTOR'S SCHOOL

The first NRA Instructor's School for those members who held a junior or senior instructor's certificate was conducted at the Schiff Boy Scout Reservation, Mendham, New Jersey, on May 27 through June 3. NRA staff member Ed F. Bridgman acted as chief instructor, assisted by W. Dow

Smith of the NRA staff, Freeman E. Morgan, Jr., Tacoma Park, Md., and J. W. Courtney, Jr., of Newport News, Va.

The twelve NRA instructors who took this week of concentrated study were: H. F. Kellar, Sykesville, Pa.; William C. Pope, Portsmouth, N. H.; Robert Maddocks, New York City, N. Y.; D. Richard Maxwell, Benton Harbor, Mich.; James E. Moon, New York City, N. Y.; Robert W. Church, Fort Lee, N. J.; George O. Johnson, Proctor, Vt.; Harry E. Maxwell, Englewood, N. J.; Wilbur W. Goldsack, Somerville, N. J.; Emil F. Shulte, Baltimore, Md.; John A. Sheridan, Schenectady, N. Y.; and Victor W. Moon, Greenwich, Conn.

COMING EVENTS

Tournaments and other important events listed below include all National, Regional and State Championships that have been registered with the NRA. The current Rifle and Pistol Registered Tournament Schedule (available on request) lists all registered tournaments that were reported to NRA Headquarters by March 15, 1951. Only state championships are listed in this column after the publication of the seasonal schedule.

Tournaments requiring advance entries are indicated by (Adv.). Tournaments limiting the number of entries that can be accepted are indicated by (Ltd.).

OCTOBER

6-12, 1951—Third Annual NRA Convention at San Francisco, California.

NATIONAL CHAMPIONSHIPS

SEPTEMBER

27-30—High Power Rifle at Camp Matthews, California. Programs available from NRA.

29-Oct. 6, 1951—Pistol and Revolver at Police Department Range, San Francisco, California. Programs available from NRA.

OCTOBER

3-6, 1951—Smallbore Rifle at San Francisco, California. Programs available from NRA.

1951 REGIONAL SMALLBORE RIFLE

AUGUST

4-5 BALTIMORE, MARYLAND — Middle Atlantic States Regional Smallbore Rifle Championship. Mr. Joseph N. Schlick, 605 Radnor Avenue, Baltimore 12, Maryland.

4-5 KNOXVILLE, TENNESSEE — Southeastern Regional Smallbore Rifle Championship. Mr. A. W. Nine, 104 Underwood Place, Knoxville, Tennessee.

4-5 BRISTOL, INDIANA—North Central Regional Smallbore Rifle Championship. Mrs. Garnette R. Horner, 1115 North Huey Street, South Bend, Indiana.

4-5 LAFAYETTE, COLORADO—Rocky Mountain Regional Smallbore Rifle Championship. Mr. E. L. Mathes, 4855 Irving Street, Denver, Colorado.

11-12 SEATTLE, WASHINGTON—North Pacific States Regional Smallbore Rifle Championship. Mr. C. M. Styer, 3447 41st Avenue, S. W., Seattle, Washington.

1951 REGIONAL HIGH POWER RIFLE

AUGUST

12 CAMP CARSON, COLORADO—J. L. Southcote, 520 No. Spruce St., Colorado Springs, Colorado.

18-19 FORT DOUGLAS, UTAH—Mr. Ralph K. Walker, 877 North Maine, Nephi, Utah.

18-19 FORT SHERIDAN, ILLINOIS — Mr. Thomas M. Blakemore, 5004 W. Huron, Chicago 44, Illinois.

19 HELENA, MONTANA — Mr. George Gilbertson, 1042 Taylor Street, Missoula, Montana.

25-26 TUCSON, ARIZONA—Mr. Don Amesbury, 4065 Montacito Street, Tucson, Arizona.

25-26 FLORIDA—High Power Rifle Regional at Winter Haven, Florida. Mr. George Bassett, P. O. Box 576, Winter Haven, Florida.

25-26-27 CAMP PERRY, OHIO—Mr. Ray T. Bayless, 3651 Trayham Road, Shaker Heights, Cleveland, Ohio.

SEPTEMBER

1-2-3 CAMP HUNTER LIGGETT, CALIFORNIA—Mr. D. W. Jackson, Jr., 1350 5th Avenue, San Francisco, California.

1-2-3 PORTLAND, OREGON—Vance Barber, % Bend Fire Dept. #5 Minnesota Ave., Bend, Oregon.

The hand that rocks the cradle rocks the boat

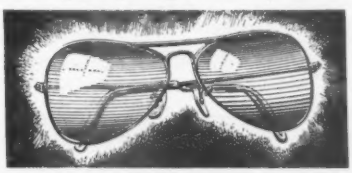
by Ray Ban

She thinks a tackle box is a place to keep sunburn oil. She calls sinkers "do-hickies." When you get a fish, she grabs the net and knocks it off the hook. When she gets one she darn near turns over the boat.

By all the laws of nature she hasn't any more right to catch fish than you have to wear a bustle. But year after year, guess who hooks the biggest ones in camp? It's the little woman, bless her!

Anybody who says women can't fish had better not say it in front of his wife. They are also famous for being able to cook and knowing a good thing when they see it. The wife of a friend of mine, for example, was the first in her family to discover and enjoy Ray-Ban "Gradient Density" Sun Glasses for fishing.

This is a Bausch & Lomb invention developed for the Air Forces in which the lens is graduated to screen out harsh, eye-wrecking sky and water glare. You get cool, comfortable light that lets your eyes relax without getting all squinted up. Colors look normal, red's red, blue's blue, etc. Made by Bausch & Lomb of the finest optical glass, ground and polished.



They're so good they're imitated, so look for RAY-BAN on the nose piece. We don't guarantee they'll make you a better fisherman. But we promise you they'll make fishin' more fun. Get a pair today and *see* what we mean. The cost is less than the price of a good reel, or a new wife.

Ray-Ban lenses may be ground to prescription. Consult your optometrist, optician, ophthalmologist.

Ray-Ban® SUN GLASSES

REAL GLARE PROTECTION

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50 ft. Pistol Target — Folded: 1½" x ¾" x 39"

Open 18" x 18" Legs 5" Weight 2¼ lb.

THE VALLEY FORGE TARGET FRAME

Here is a new, collapsible steel target frame, tested and enthusiastically approved by members of N.R.A. Simply unfold, stick in ground and attach target. No take-down, screws, bolts or loose parts. Takes targets 50 ft. to 200 yds., self-centering. $5.75 Postpaid in U. S. Checks or Money Order. Write:

THE VALLEY FORGE Taos, New Mexico

"JIFFY" CAR WASHER

FOR WASHING CARS, WINDOWS, ETC.

Made of finest virgin wool. The only washer giving clear spray of water. Leaves surface with natural gloss, no chamois necessary. ORDER YOURS NOW. Send check or money order or will ship C.O.D. MONEY BACK GUARANTEE ---------- $2.98

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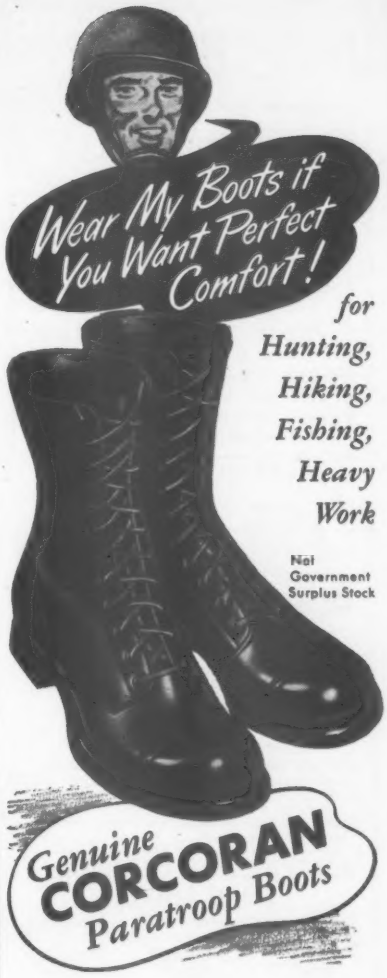
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Not Government Surplus Stock
Genuine CORCORAN Paratroop Boots

A Paratrooper has to have perfect comfort *and plenty of foot protection, too.* That is why paratroopers insist on genuine Corcoran Paratroop Boots . . . the only boots made today to the original specifications for paratroop boots. Wear a pair once and you'll never wear any other. You'll enjoy perfect comfort from the minute you put them on. Available in highly polishable tan or black or with heavy oil waterproof finish.

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Send $14.87 with order. Specify size, width and color wanted. Money back if not pleased on receiving them.

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Boot size and width _____

(Specify size and width of your former GI Army shoe or your most comfortable dress shoe.)

AR-281

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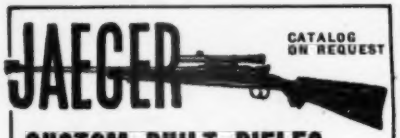

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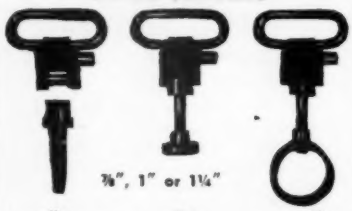

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ADJUSTABLE TRIGGER

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We have the below-listed telescope sights available at Waseca for immediate delivery, with a larger shipment due in three months. We unconditionally guarantee these to be the world's finest telescope sights with optics superior to North American sights, regardless of price. Our scopes are hand made, not factory production run. All sights have hard coated lenses with cross-hairs; waterproof windage and elevation adjustments; plus special focus for shooters who wear eye-glasses. All can be attached using popular-priced American made mounts.
30 on hand. No. 9, 2½X Power, 40 Ft. Field $45.50
(Equal or better than American Scopes selling for $80)
10 on hand. No. 27, 4X Power, 33 Ft. Field $51.00
(Equal or better than American Scopes selling for $90)
10 on hand. No. 81, 6X Power, 25 Ft. Field $59.50
(Equal or better than American scopes selling for $100 or more)
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It's light-weight (12) — compact — powerful, with 7 to 1 advantage. Roller bearing pulleys—100 ft. strong Nylon rot-proof cord. 350 lb. test. 12 ft. span—capacity 1000 lb. Fully guaranteed—will last a life time. Price—complete with straps and canvas bag—$12.50 postpaid.
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9 CAMP RIPLEY, MINNESOTA—Mr. B. K. Soby, Fergus Falls, Minnesota.

1951 REGIONAL PISTOL

AUGUST

3-4-5 LOS ALAMOS, NEW MEXICO — Far Southwestern Regional Pistol Championship. Mr. George R. Irwin, Atomic Energy Protective Force, Los Alamos, New Mexico.

10-11-12 ST. LOUIS, MISSOURI—Midwestern Regional Pistol Championship. Mr. Frank Stubits, 5507 Lisett Avenue, St. Louis 9, Missouri.

11-12 BOISE, IDAHO—Northwestern Regional Pistol Championship. Mrs. Emily Davidson, Route 3, Boise, Idaho.

17-18-19 JACKSONVILLE, FLORIDA—Southeastern Regional Pistol Championship. Mr. C. A. Brown, Jacksonville Police Department, Jacksonville, Florida.

17-18-19 RAYMOND, WASHINGTON—North Pacific States Regional Pistol Championship. Mr. Malcolm B. Edwards, P. O. Box 252, South Bend, Washington.

18-19 BRIGHTON, MICHIGAN—North Central Regional Pistol Championship. Mr. Charles H. Drew, 12345 9 Mile Road, South Lyon, Michigan.

STATE CHAMPIONSHIP TOURNAMENTS

AUGUST

3-4-5 D. C.—United States Park Police 7th Annual Pistol Tournament at Washington, D. C. Chief M. H. Raspberry, Rm. 1215, Interior Building, Washington, D. C.

4-5 OKLAHOMA — Oklahoma State Pistol Championship at Tulsa, Oklahoma. William A. Van Atten, 2144 North Louisville, Tulsa, Oklahoma.

12 WISCONSIN—.30 Caliber State Championship at Racine, Wisconsin. Mr. Dexter F. Rhodes, 3828 W. Sheridan Avenue, Milwaukee, Wisconsin.

18-19 UTAH—Utah State .30 Caliber Rifle (Regional) Championship at Salt Lake City, Utah. Mr. Ralph K. Walker, 877 North Main, Nephi, Utah.

18-19 OREGON—Oregon State High Power Championship at Bend, Oregon. Mr. Vance Barber, in charge of Bend Fire Department No. 5, Minnesota Avenue, Bend, Oregon.

19 VERMONT—Vermont State Smallbore Rifle Championship at Springfield, Vermont. Mr. Richard Wienka, R.F.D. #3, Springfield, Vermont.

19 MONTANA — Montana State .30 Caliber Championship (Regional) at Helena, Montana. Mr. George Gilbertson, 1042 Taylor Street, Missoula, Montana.

19 NEW YORK—New York State Smallbore Championship at Hicksville, Long Island, New York. Mr. Val B. Cleaver, P. O. Box 356, Hicksville, Long Island, New York.

19 MINNESOTA—Minnesota State Outdoor Pistol Championship at St. Paul, Minnesota. Mr. Cy B. Wood, 2048 N. Cleveland, St. Paul 8, Minnesota.

25-26 NEBRASKA — Nebraska State Pistol Tournament at Lincoln, Nebraska. Mr. Harold Buis, 1312 North 35th Street, Omaha, Nebraska.

25-26 NEW MEXICO—New Mexico State Championship at Cimarron, New Mexico. Mr. Roy E. Triplett, Cimarron, New Mexico.

25-26-27 OHIO—Ohio State Individual and Team (Regional) Championship at Camp Perry, Ohio. Mr. Ray T. Bayless, 7301 Euclid Avenue, Cleveland 3, Ohio.

26 CONNECTICUT—14th Annual State Smallbore Rifle Championship at East Wallingford, Connecticut. Mr. J. Russell Lent, Middlefield, Connecticut.

29-30-31 & Sept. 1-2-3 OHIO—Camp Perry Championship Matches at Camp Perry, Ohio. John R. Lang, 3498 Meadow Avenue, Cincinnati 11, Ohio.

SEPTEMBER

1-2-3 OREGON—Oregon State High Power Rifle Championship at Portland, Oregon. Mr. R. L. Kirk, 3816 S. E. 33rd Avenue, Portland, Oregon.

1-2 LOUISIANA—Louisiana State Pistol Tournament at Shreveport, Louisiana. Mr. W. A. Gooch, P. O. Box 4248, Shreveport, Louisiana.

1-2-3 OHIO—Camp Perry Pistol Championship Matches at Camp Perry, Ohio. Mr. John R. Lang, 3498 Meadow Avenue, Cincinnati, Ohio.

2 KANSAS — 12th Annual Sunflower State Smallbore Tournament at Topeka, Kansas. Mr. Leo J. Voelker, 423 East 10th Street, Topeka, Kansas.

2-3 MONTANA—Montana State Outdoor Smallbore Championship at Laurel, Montana. Mr. E. S. Shoemaker, 2010 8th Avenue, North, Great Falls, Montana.

2-3 WYOMING—Wyoming .30 Caliber Rifle State Championship at Worland, Wyoming. Mr. Marten Martenson, 1301 Pulliam Ave., Worland, Wyoming.

2-3 LOUISIANA — Louisiana State Smallbore Rifle Matches at New Orleans, Louisiana. Mr.

Thomas Hollis, 553 Homestead Avenue, New Orleans, Louisiana.

8-9 WEST VIRGINIA—14th Annual Mountain State Pistol Tournament at Parkersburg, West Virginia. Mr. Kenneth E. Gilbert, 4 Camden Place, Parkersburg, West Virginia.

8-9 NEW MEXICO—New Mexico State Pistol Championship at Los Alamos, New Mexico. George E. Irwin, P. O. Box 538, Los Alamos, New Mexico.

8-9 MASSACHUSETTS—Massachusetts State Association Pistol Matches, at North Attleboro, Massachusetts. Mr. E. F. Mitchell, Commonwealth Avenue, Attleboro Falls, Mass.

9 IOWA—Iowa State .30 Caliber Tournament at Moscow, Iowa. Ruth Maurer, Wilton Junction, Iowa.

9 NEBRASKA — Nebraska State Smallbore Tournament at Grand Island, Nebraska. Mr. H. H. Buis, 1312 N. 35th Street, Omaha, Nebraska.

9 ILLINOIS—Illinois Pistol State Championship at Highland Park, Illinois. Mr. W. H. Davis, 1306 Nyoda Place, Highland Park, Illinois.

16 VERMONT—Center Fire Rifle State Championship at Northfield, Vermont. P. H. Teachout, East Burke, Vermont.

16 UTAH—Utah State Pistol Championship at Salt Lake City, Utah. Mr. Ralph K. Walker, 877 North Main, Nephi, Utah.

16 WASHINGTON—Washington State Championship Pistol Match at South Bend, Washington. Malcolm B. Edwards, P. O. Box 252, South Bend, Washington.

23 ILLINOIS—Illinois State Smallbore Rifle Championship at Libertyville, Illinois. Mrs. Betty Mason, 225 West Park Avenue, Libertyville, Illinois.

23 NEW YORK—The Empire State Rifle Association Tournament at Gowanda, New York. Mr. Edward Penfold, RD #5 South Park Avenue, Hamburg, New York.

30 MASSACHUSETTS—Framingham Fall Smallbore Rifle Tournament at Framingham, Massachusetts. Mr. Kent R. Bulfinch, 13 Massasoit Avenue, South Sudbury, Massachusetts.

29-30 MICHIGAN — Outdoor State Championship Matches at Ionia, Michigan. Maurice E. Ward, 421 Jones Street, Ionia, Michigan.

30 TENNESSEE—Tennessee State High Power Rifle Championship at Oak Ridge, Tennessee. Mr. Ralph E. Morang, Jr., 109 Outer Drive, Oak Ridge, Tennessee.

OCTOBER

20-21 ALABAMA—13th Annual Alabama State Championship at Mobile, Alabama. Mr. H. W. Passinger, 112 Gilbert Street, Mobile, Alabama.

CHANGES AND CANCELLATIONS

AUGUST

11 CALIFORNIA — Night Tournament at Fresno, California. Mr. Henry Wright, 4927 Olive, Fresno, California. (Note: This tournament has been cancelled.)

12 NEW HAMPSHIRE — New Hampshire State Match at Plainfield, New Hampshire. Walter S. Gobin, Box 23, Plainfield, New Hampshire. (Note: Previously scheduled for September 2nd.)

25-26 NEW YORK — 6th Annual Fall Pistol Tournament at Poughkeepsie, New York. Mrs. Martha W. Strahan, 30 Arnold Street, Poughkeepsie, New York. (Note: Previously scheduled for September 15-16.)

SEPTEMBER

1-2 CALIFORNIA — Southland Tuna Pistol Matches at San Diego, California. Sgt. A. B. Davis, 3044 Ingelow, San Diego, California. (Note: Previously scheduled for September 2.)

15-16 MICHIGAN—Michigan Rifle and Pistol Association, Inc. at Camp Grayling, Michigan. Mr. Walter C. Franke, 432 E. Lafayette, Detroit 26, Michigan. (Note: Previously Scheduled for July 21-22.)

16 IOWA—Big Four Fall Rifle Tournament at Postville, Iowa. Mr. Vance Stover, Postville, Iowa. (Note: Previously scheduled for Sept. 9.)

16 PENNSYLVANIA — 19th Annual Lehigh Valley Smallbore Championship at Allentown, Pennsylvania. Mr. Robert E. Opperman, Fullerton, Pennsylvania. (Note: Previously scheduled for September 30.)

21-22-23 TEXAS—.30 Caliber Second Annual Chemcel Matches at Bishop, Texas. Mr. Robert W. Rasmussen, 604 Henderson, Bishop, Texas. (Note: Previously scheduled for September 7-8-9.)

STOLEN GUNS

Smith & Wesson K-22 Masterpiece, #644699. Whitney Matthews, 515 Green Street, Alexandria, Virginia.

Smith & Wesson K-22, #644732, Target Revolver. Walter A. Berg, 6124 Hereford, Detroit 24, Michigan.

Smith & Wesson K-22, #61769. David Breiner, 1337 North 12 Street, Reading, Pennsylvania.

Typical items from *Colonel Whelen's New* GUN CATALOG

	Cost	Down Payment	Monthly Payment
RIFLES			
Rem. 721 '06 & 270	$ 92.35	$22.00	$14.00
Savage 99 E G	111.50	26.00	17.00
Marlin 336 Carbine 30/30	70.95	17.50	11.00
Marlin 336A Rifle 30/30	83.95	21.00	12.00
Savage 340 30/30	49.75	12.00	7.00
FN Mauser 270 & 06	137.50	34.15	22.00
Sako-Mauser .222	117.50	30.00	19.00
Remington 37AR .22	136.95	33.00	21.00
SHOTGUNS			
Remington Sportsman	115.45	27.50	17.50
Remington 870 AP	80.80	19.20	12.00
Remington 870 ADL	92.35	22.00	14.00
Savage Automatic 775	115.00	27.50	17.50
Fox Model B Double	77.00	18.00	12.00
Stevens 530 Double	67.00	16.00	10.00
HANDGUNS			
Ruger .22 Auto	37.50	9.50	6.00
Colt O.M. .22 or .38	75.00	19.00	11.50
Colt Challenger	52.50	13.25	8.00
Colt MT Woodsman	85.00	21.25	13.00
S&W K.22, K.38 Masterpiece	71.50	18.00	10.00
Astra .25 Automatic	37.50	9.50	6.00
Colt Detective Special	65.00	16.50	10.00
S&W M&P 2", 4" & 6"	62.00	15.50	9.50
TELESCOPES			
Weaver K2.5	37.50	9.50	6.00
Weaver K4	45.00	11.25	7.00
Weaver KV	57.50	14.50	9.00
B&L Balvar	80.00	20.00	12.50
Lyman Alaskan	65.00	16.25	10.00
Stith 4X Master	55.00	13.75	8.50
Stith 6X Master	70.00	17.50	10.50
Unertl Varmint	75.00	19.00	11.50
B&L Spot Scope 20X	95.00	23.75	15.00
BINOCULARS (all prices include Tax)			
Bausch & Lomb 6X30 or 7X35	186.00	46.50	28.00
Bausch & Lomb 8X30 or 9X35	204.00	51.00	32.00
Bausch & Lomb 7X35 Monocular	77.50	19.50	12.00
Monette 8X30 Monocular	49.50	12.50	8.00
Imported 7X35 Coated	71.40	17.75	10.75

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Dope Bag

answers by THE RIFLEMAN'S PANEL OF EXPERTS

Julian S. Hatcher • Al Barr • Elmer Keith
Harold MacFarland • Phil Sharpe • Hugh C. Stith

CHLORATE PRIMERS

A friend of mine says he was taught in chemistry that potassium chlorate is not an explosive. I've tried to convince him that the potassium chlorate primer has been used for many years by the Army to ignite the powder charges in small arms ammunition.

We have agreed to let you settle the matter.—Robert Sherman, Los Angeles, California.

Answer by General Hatcher: In a way both you and your friend are correct. Chemically pure potassium chlorate by itself is not generally considered as an explosive, but on the other hand it does become violently explosive when mixed with any foreign substance which is combustible. The reason for this is that potassium chlorate ($KClO_3$) has a large amount of oxygen in its composition, and it gives off oxygen readily when heated. For this reason it is commonly used in chemistry classes as a source for obtaining oxygen, usually by mixing powered potassium chlorate with black oxide of manganese and heating the mixture.

Because potassium chlorate gives up its oxygen so easily, it is dangerous to handle owing to the possibility that some foreign substance may have been mixed in with it. For example, grinding it with a mortar and pestle may cause an explosion if the mortar is not perfectly clean and free from impurities.

You are quite correct in stating that potassium chlorate is the basic oxidizing agent in the standard primer that has been used by the United States government for a great many years. This is the so-called corrosive primer; corrosion is due to the potassium chloride left in the bore by the decomposition of the chlorate.

Manufacture of the chlorate primer has recently been discontinued by the Ordnance Corps, and primers now being made or bought by the government contain no chlorate and are non-corrosive.

COMMERCIAL PROOF LOADS

Where can I buy proof loads for the .270, .257, and .30-'06?—P. I. Bowman, Syracuse, N. Y.

Answer by Al Barr: To my knowledge proof loads have never been sold to individuals. I could not possibly tell you where you could find even a single round in any caliber. The manufacturers have to be very careful to prevent proof loads from getting out and have imposed drastic restrictions and controls on these loads as a necessary safety measure. If I wanted to proof my own rifles in .257, .270 or .30-'06 caliber, I'd take the maximum load of a powder such as 4064 and increase it about three grains in the .257 and three to five grains in the.30-'06 and .270 for a given bullet weight. Be sure to get behind a safe shelter and pull the trigger with a long string. Then follow with regular loads and if the rifle stands it I'd feel I had a safe rifle.

RELOADING .38-40 REVOLVER

What is a safe modern load for a Colt Bisley .38 WCF?—J. A. Hoag, Nashville, Tenn.

Answer by Elmer Keith: You can use 4.5 (four and one half) grains of Bullseye powder or 8 grains of No. 5 powder or 15 grains of Hercules 2400 powder with the jacketed or lead 180-grain bullet. You will have to resize the cases full length as the chambers will be much longer in the body than the shell case.

INTERCHANGING MAUSER PARTS

Is there any reason why a new FN bolt assembly couldn't be used in a Mauser 33/40 action? Are all Mauser regular length action parts interchangeable?—Ted Kindel, Grand Rapids, Mich.

Answer by Al Barr: Mauser parts are supposed to be interchangeable, but if you have a bolt made by FN and a G33/40 action it wouldn't be the best fit. I'd use the bolt only when rebarreling a rifle.

SHARPSHOOTER POWDER IN SIXGUNS

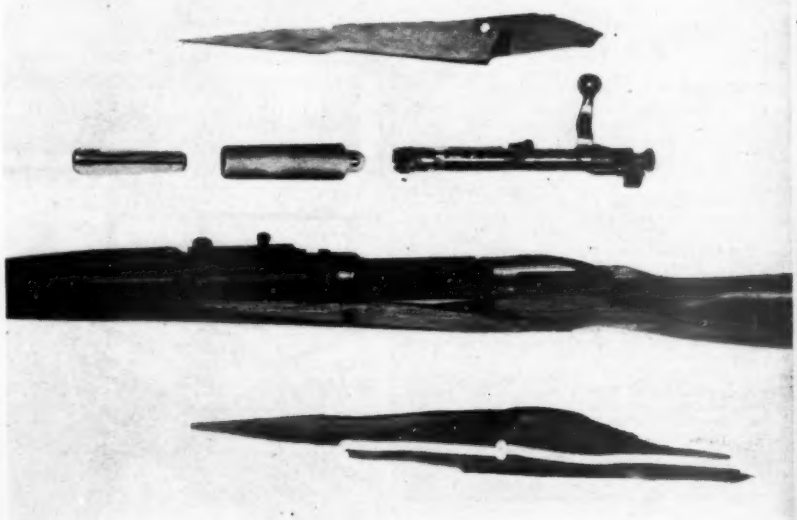
I have a Smith & Wesson .38-44 Outdoors-man. Can I safely use 11 grains of Sharpshooter powder with the Ideal bullet number 360271-S? With the Ideal bullet number 358250 can I safely use 11 grains of Sharpshooter or 6.4 grains of Unique powder?

I crimp bullet number 360271-S in the middle of the forward band and I crimp the other one just back of the forward band. I size to .358-inch diameter.

I don't intend to use these loads for target shooting. I wish to use only a reasonable number of them for small game and porcupines.—A. R. McChesney, Denver, Colorado.

Answer by Elmer Keith: I would not recommend the use of Sharpshooter powder in any sixgun, as it is a rifle powder for the .45-70, .38-55 and similar loads.

You have a good gun and if you will size those bullets to .357- or not over .358-inch and load from 12 to 13.5 grains of 2400 powder you will get the best possible heavy game loads, or get a mould for the Keith 160-grain hollow-point from Lyman. Crimp in the regular crimp groove and load 13.5 grains 2400 and you will have an even better combination. This load will explode small game.



As a result of inadvertently substituting 37 grains of pistol powder in the place of rifle powder, this Remington Model 1903 Rifle, serial number over 3,000,000, was reduced to scrap.

Inadvertently using pistol powder in rifle cartridges will cause just as much damage as a deliberate substitution, so think before you load and do not use pistol powder—any type—in any rifle cartridge. See the item in July 1950 Dope Bag, page 55.

Order from this ad. All sales final. Prices F.O.B. Glendale. Pay by M.O. or check. P.O.'s accepted from D&B firms. ½ deposit with C.O.D.'s.

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BAUSCH & LOMB Rayban Shooting Glasses. Specially ground & polished lenses meet requirements of U.S. Bureau of Standards. Lenses are light green to filter 90% of Ultra Violet Rays. Frame and lenses are designed to prevent "flash back" and allow better shooting. Frame is 14K Gold finish. Has pearloid sweat bar & pads.

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12V. light, 4" lens **3.29**

24V. light, 5" lens **3.89**

Set of 3 filters – red, green, amber. (specify type lamp). **.99¢**

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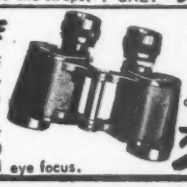

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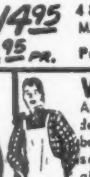

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Similar to above with extra large additional pocket and double cover flap. Size: 20" x 15" x 8".

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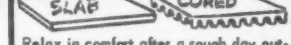

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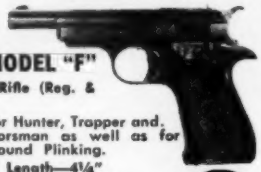

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Barrel Length—4¼"
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Weight—25 oz.
Sights—Fixed
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The Model "F" Sport illustrated, with its 6" barrel and overall length of only 9" does double duty on the range as well as for general outdoor use. Both Models .22 Long Rifle (Regular & Hi-Velocity). Weight, 6"—27 oz., 7"—29 oz. Thumb-Rest Grips! Sights—Adjustable windage & elevation. Magazine capacity — 10 rounds. Extra Clip & Clean-Rod Gratis!

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Length Overall—11 1/16"
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Mag. Capacity—9 Shorts
Extra Clip & Clean-Rod Gratis!

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Money back if dissatisfied

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RELOADING FOR SHARPS

I want a Sharps rifle, not just for my collection, but one I can load a few shells for and shoot occasionally.

Martin B. Retting, West Hurley, New York, lists Sharps Offhand, Sharps Sporting, or Sharps Buffalo rifles in calibers .40-50, .40-70, 44-77 and .45-100-550 - 2⅞ inch, and the Sharps Carbine in .50-70 center fire.

Would it be practical to buy either a Sharps rifle or carbine with the idea of reloading ammunition and shooting one of these guns?—HOMER CHURCHILL, Neenah, Wisconsin.

Answer by Elmer Keith: You can reload for any of those Sharps if you can get a supply of cases. Yankee Specialty Company, Erie, Pennsylvania, can make you the patch moulds, but you will have to improvise or get some Sharps tools for the decapping and recapping of the cases. I would advise buying a gun that is complete with ammo and loading tools. Winchester also made tools years ago for about all the Sharps loads. If possible get a Sharps with the little dovetail guard behind the firing pin as issued on the 74 models. The older 69 models have no such protection for the eye if you get a pierced primer, and I would not advise their use.

You simply load the F.F.G. or F.G. powder charge, then a heavy card wad, then a wad of tallow about one eighth- to one fourth-inch thick, and then seat the patched bullet friction tight. Cast the bullets one to twenty as a rule, and not harder than one to sixteen tin and lead. The cases expand after several firings and should then be resized. An ad in the back of the RIFLEMAN should turn up some tools and supplies.

J. V. K. Wagar, Fort Collins, Colorado, also may have some tools and cases in some calibers for sale. Perhaps, Retting can furnish you with an outfit with tools and shell cases. With proper cases and tools the Sharp is one of the easiest rifles the reloader can find.

CONVERTING SELF-LOADER

Is it possible to convert a Winchester Model '07 self-loader from .351 to .45 ACP? There are certain obvious advantages to this in the matter of ammunition cost,

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and I wonder if it would be worth while, since the .351 caliber doesn't have much in its favor anyway. It seems to me that such a rifle would be at least as useful as the .45 and .44 revolvers Keith recommends for hunting, and I gather that the change would involve nothing more complicated than a new barrel and clips. What would be the ballistics of the ordinary 230-grain .45 ACP load in the Model 1907's 20-inch barrel?—CREIGHTON SCOTT, Rutherford, New Jersey.

Answer by Harold MacFarland: I hate to jump on anyone's idea for getting rid of the obsolete .351 ammo and substituting modern cartridges for it, but I'm afraid the idea is just impractical. Every time Winchester changed the caliber on the old self loading design they had to redesign the gun. They made it as a .22 in 1903. In 1905, it was brought out as a .32 and a .35, but these two cartridges were carefully designed as a short .35 and a long .32 to have exactly the same recoil. In 1907 they made the .351; and in 1910 they made the 401. Each of these guns was an entirely separate design and built from the ground up for a specific cartridge.

This self-loader has no locking lugs. All that holds it shut is spring tension, and the weight of a huge block of steel inside the fore end and attached to the breech block. This weight is designed to balance a certain recoil and slow the block down until pressures have diminished in the barrel. It would take a ballistics laboratory to balance the action properly. The gain in velocity for a .45 in a 20-inch barrel would be in the neighborhood of 200 feet per second.

OGIVE MEASUREMENT

How does one determine the ogive of a bullet?—ELMO HERBERT, Douglas, Ariz.

Answer by Al Barr: The curved forward part of a bullet is called the ogive. This curve or ogive is usually described by giving the radius of the curve in calibers, the caliber in this case being the diameter of the bullet in question. As an example, for the .30 caliber bullet, one caliber is .30 inch and a .7 caliber ogive has a radius of seven times .30 or 2.10 inches. Thus the ogive of this bullet would coincide with the circumference of a circle with a radius of 2.10 inches.

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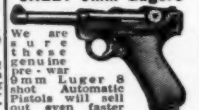

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STRETCHING OF .257 CASES

I am reloading for the .257 Roberts in a Model 70 Winchester which has been checked for head space. After the second or third firing about six or eight cases stretch so that the bolt closes rather stiffly on them. And after a couple more firings it requires even more pressure to close the bolt but the cases extract easily enough after they are fired. Is this normal? I am under the impression that a case should not be used unless the bolt will close easily on it. Also, the B&M handbook, I believe, states that cases fired in the same rifle should not have to be full length resized. I use 42 grains of 4320 powder with the 87-grain speer or Sierra bullet. Bullets are seated so they almost touch the lands. This load gives me very good accuracy at 100 yards, groups running from 1 to 1¼ inches. Recoil is not excessive and primer pockets do not enlarge any. From what I can see there are no signs of excessive pressure. I use a Wilson case gauge to check the neck length. Do you think it advisable to keep reloading these cases even though it requires some pressure to close the bolt on them? Have used 42 grains of 4064 powder with the same results except that accuracy was not as good. Both of these loads were worked up from 39 grains, a grain at a time.—E. W. WALLACE, New Bedford, Mass.

Answer by Al Barr: So long as you get good accuracy in your .257 Roberts with the load you are using, that's really the important thing to be considered. Cartridge cases when they stretch should be trimmed to a maximum of 2.233 inches. Longer cases will boost the pressure and usually cause inaccurancy, but case stretching should not occur frequently if you do not full length size your cases. It's true that the .257 Roberts cases do stretch some and you should definitely check on the length of them. If the cases get so that they enter the chamber with difficulty then you'll have to do some sizing. However, when cases get too long or too large you'll surely note a falling off in accuracy, but apparently you haven't so I don't see any reason for your changing the loading technique at the present time. I have found that even 43 grains of 4064 powder with an 87-grain bullet gives nearly 3,400 feet per second at around 50,000 pounds pressure, so your 42 grains should be a good but near maximum load using 4320 powder. Because it is near maximum is probably another reason why the cases expand and are difficult to get back in the chamber again.

SAWED-OFF SHOTGUN

How short does a shotgun barrel have to be before it is considered a "sawed off shotgun"? Is there any law against owning or selling such a gun?—JOHN SNYDER, Preston, Kansas.

Answer by Al Barr: Shotguns, like rifles, must be registered, if the barrel or barrels are less than 18 inches in length. Transfer fees on most so-called firearms are $200 for each firearm, with one exception; the transfer tax on any gun with two attached barrels 12 inches or more in length from which only a single discharge may be made from either barrel without manual reloading shall be at the rate of $1.00.

TEMPERATURE AND PRESSURE

I believe it would be wise if you would issue a warning to all handloaders to be very careful about leaving a heavily loaded case in a warm chamber for any period of time in excess of ten seconds. On several occasions, I have seen a hot rifle loaded with a heavy load, and considerable time allowed to lapse before the shot was fired. Loads fired in a hot barrel after remaining in the chamber over a minute showed very flat trajectory and cases indicated extreme, even dangerous, pressures. I believe this could be the cause of an accident.—RALPH F. PRIDE, Portland, Oregon.

Answer by Al Barr: In the past I've warned shooters about using what I call winter loads in the hot summer months. That condition could be exaggerated with a hot barrel and hot chamber. Also, a change in chamber conditions or temperature will result in a change in point of impact. Experimentally, we took some cartridges on a very hot summer day and placed some of them in an ice cooler on the range. Then we started shooting, and it was interesting to note the apparent increase in pressure as the chamber heated up, until finally the loads showed excessive pressure when both the cartridges and chamber were hot.

HOW TO REMOVE LEADING

What is the best way of removing leading from a revolver bore? Is it possible to remove leading without mercury or incessant scrubbing with a brass brush?—PHIL FINE, Baltimore, Md.

Answer by Phil Sharpe: I won't say that it is impossible to remove leading without the use of mercury or a brass brush, but I know of no other way.

In the first place, if your revolver bore is rough and pitted, nothing will prevent it from leading continuously. If it is smooth but still leads, it may be the bullets you are using. If it leads with factory ammunition, it is probably due to the reamer marks in the barrel throat or chamfer. A good gunsmith can polish these out. If you have leading, you'll have to scrub to get it out.

FRANGIBLE BALL CARTRIDGES

I have several .30 caliber rifle cartridges in a U. S. Army machine gun belt. These cartridges have a bullet with a green tip and white band and are made of a very soft material such as plastic or graphite. I have been told they were used for training in aerial gunnery. I would like to know if these are a standard case and if they could be reloaded safely. Cases are head stamped WCC-45. The primers are dyed or painted red. Does this indicate the type of primer? If these cases are safe to use, would it be necessary to reprime with a different primer? —EARL W. NORTON, Helena, Mont.

Answer by Phil Sharpe: The ammunition you have is the 'Cartridge, Ball, Frangible, M22 (T44).' It is an aircraft training cartridge of very low power, which is supposed to disintegrate upon impact with the skin of a plane fuselage. Specifications call for complete disintegration on 3/16-inch dural at 25 yards. This bullet will not disintegrate on thin plywood but will penetrate it. It must strike a metal surface to break up, SO TAKE NO CHANCES. The bullet is composed of 50-percent powdered lead by volume bonded with 50-percent bakelite.

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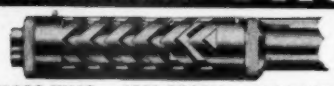

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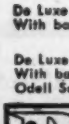

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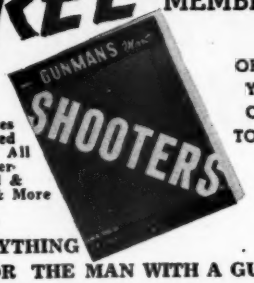

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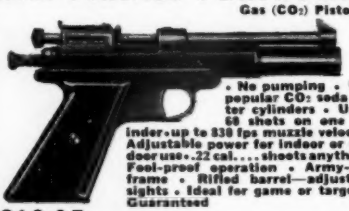

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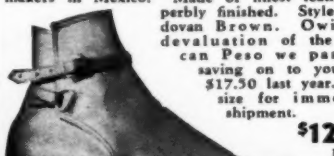

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M22 cartridges were loaded with the standard FA 70 corrosive primer, but, due to the light load (11 grains of sporting type powder), generally only second quality cases were used. I wouldn't waste time trying to pull the bullets and use the cases, for the bullets crumble or break in pulling machines. Instead, save them to give to friends who collect these. They are none too common, and I spent a lot of time last summer trying to find a batch to use in velocity and accuracy tests. I couldn't find any.

OLD BRASS SHOTSHELLS

In collecting cartridges, I have acquired two empty brass shotshells. One is head stamped UMC Co. No. 16, is two and one-half inches long, and is evidently a regular 16-gauge. The other case is two and 9/16 inches long, is head stamped UMC Co. BRIDGEPORT, CONN. 16B, and is considerably smaller in diameter than a 16-gauge shell. In fact, it seems to chamber perfectly in a 20-gauge shotgun.

The first shell has a large size primer and normal primer pocket. The 16B case has a small primer. The flash hole is filled with a pin that protrudes approximately three-eighths of an inch into the powder chamber. Two flash vents are provided, one on each side of the pin. I have not been able to identify the 16B case. Could you tell me what it is?—WINSTON JOHNSON, Stewartsville, Ind.

Answer by Phil Sharpe: As a collector you have encountered one of the oddities of yesteryear.

First of all, the old brass shotshells. Many years ago an old trapshooter friend who loaded his stuff in brass shells for a swank Parker, revived his gun and started using factory paper shells. He had no power, terrible patterns, lousy breaks on the spinning saucers. I checked that so-called 12-gauge. It was actually about 11-gauge. I took it up with Frank Parker personally, and he told me that in those days the brass shells were used, and, due to the thin brass tube, oversize wads were used and the barrels bored to 11-gauge to fit the wads. When paper 12-gauge shells were used, wads were undersize and did not fill the bore, causing heavy gas leakage, loss of power, and scattering of shot.

Parker told me that since they couldn't shrink those bores, they often rechambered for paper shells of larger gauge.

That smaller shell you have which is marked 16B sounds like the Sturtevant Patent case of 1866. A similar idea using this pin assembly, with a floating anvil, was patented by Sewell Newhouse of Oneida, N. Y., in 1870. This may be what you have. My sample is marked 10A (UMC). This used a percussion cap seated in the pocket as a normal primer. After firing, a wood decapping plug was inserted in the case. Pushing on the extended pin forced the anvil out and thus pushed out the fired cap. The end of the pin was upset to prevent loss. Use that pin to push out the old dead primer—your specimen is then available for display.

.25 CALIBER SPORTER

What .25 caliber rifle would give me the best combination rifle for medium game (such as deer) and varmint shooting. I am

considering the .250 Donaldson and .250 Donaldson Ace. I plan on handloading my ammunition, so please recommend which would give me the flattest trajectory. Also, could a standard Remington 722 or Winchester 70 be converted to this wildcat?—HENRY WRIGHT, JR., Fayetteville, Tenn.

Answer by Al Barr: The .25 caliber cartridge case holding the most powder will give you the highest velocity and flattest trajectory at safe working pressure for a given bullet weight. That means the .250 Donaldson, which holds more powder than the Ace, will give higher velocity and flatter trajectory. There is another wildcat which I would consider if I wanted decent accuracy, but flat trajectory above everything else. That would be the .25 Helldiver, which is merely an expanded .257 Roberts case. It is similar to other gunsmiths' version of the so-called Improved .257. In that way you wouldn't have to cut off the .257 cases to make the .250 Donaldson.

Were I picking a cartridge for both fine benchrest accuracy and hunting as well, I'd take a smaller capacity case such as the .250 Donaldson Ace or the straight .250 Savage. The Helldiver cartridge is featured by L. R. Wallack, Mayfield, N. Y. I have seen some very good groups which he made with this caliber.

The Remington or Winchester .257 caliber rifles could be rechambered for these cartridges, especially the Helldiver, but for the shorter .250 Donaldson or Ace the barrel would have to be set back and then rechambered. For that reason the full length blownout .257 might be your best bet. I would prefer to have the magazine lengthened. For long-range shooting you undoubtedly will use pointed bullets, and you could possibly seat them out far enough to touch the rifling. Because of the increase in length they might not work through the magazine unless it is lengthened. The overall length of the factory .257 cartridge is around 2¾ inches, but with long pointed bullets it is possible to handload to an overall length of nearly three inches.

PRACTICAL RIFLE REST

A screw type automobile jack with a few additions makes a low-priced adjustable rifle rest. Although available in many sizes, the best perhaps would be one weighing about five pounds, with a six-inch base, and four-inch extension screw. A V-shaped piece of wood or metal should be fastened on top of the adjustable screw to hold the sandbag in place—WILLIAM C. BURNETT, Stillwater, Okla.

SMOOTHING BOLT ACTION

Would you please explain the proper method of operating a bolt-action rifle. I read about some British soldiers being able to fire 20 aimed shots per minute. I'd like to be able to do that but it takes me that long to work the bolt without aiming at all.

Is there any way without using power tools to smooth and polish the inside of the receiver and bolt so that it works as smoothly as an old Krag?—DAVID KIEL, Port Angels, Wash.

Answer by Al Barr: There are ways of smoothing up the bolt of a bolt-action rifle for faster operation, but the kind of speed to which you refer requires more practice than anything else.

If you are careful about the procedure you can use fine lapping compound, such as

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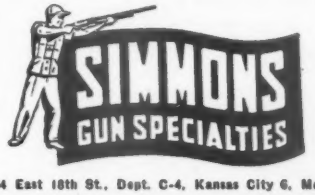

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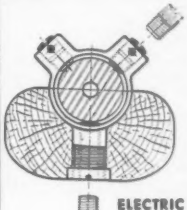

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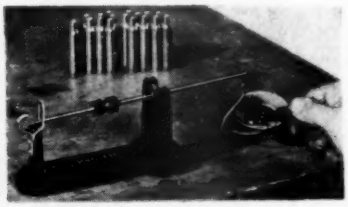

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very fine valve grinding compound or an emery or carborundum powder with oil; put it on the bolt and actually lap the bolt in the receiver. It will make it somewhat looser, but won't do any harm so long as you do not get the compound on the lug seats in the receiver, and also on the lugs proper. If that occurred, then you would undoubtedly get enough wear to cause excessive headspace. Either that or fine polishing cloth on a stick is about the only convenient way you can polish up the inside of the receiver. Then, when you have a slick action simply practice until you acquire speed in operating the bolt.

COLD WEATHER LUBRICANTS

In the February 1942 RIFLEMAN, the "Old Coach" stated that in sub-zero weather, the breech mechanism and bore must be kept free of oil and grease, and wiped dry. Wouldn't this cause excessive wear? Is there some usable lubricant?—FRANCIS WEIPERT, Denver, Colo.

Answer by Al Barr: I've never liked an excessive amount of lubrication in the mechanism of any gun. The actual wear caused by moving and working parts in a gun is so limited for the number of times you fire it that I would prefer to have the parts cleaned and free of oil if there were any possible chance of the oil or grease causing trouble in the way of inaccuracy, misfires, hangfires or malfunctions.

Fortunately, there are substitutes for a gummy oil or grease. Graphite may be used in reasonable and sensible quantity, and also a new lubricant called Silicone which is featured by several different firms, but can be obtained from Herter's, Inc., Waseca, Minn.

ARMOR PIERCING AMMUNITION

How can I determine whether .30 caliber M2 ammunition is loaded with armor piercing bullets?—CHARLES A. BULEY, Great Falls, Mont.

Answer by Al Barr: Most M2 armor piercing ammunition has the tip of the bullet painted black. Pull a bullet from each different lot and weigh it. The armor piercing bullet is longer than the conventional M2 bullet, and it weighs 168.5 grains. The regular M2 ball weighs around 150 to 152 grains.

SHOTSHELL PRIMERS NOT FOR RIFLES

Can shotgun primers be used for reloading rifle or pistol ammunition?—ALEX HOROWITZ, Bronx, N. Y.

Answer by Phil Sharpe: Shotshell primers cannot be used for reloading rifle and pistol ammunition. The design and size does not permit their use. Most shotshell primers are of the 'battery cup' type, a primer cup with mixture but no anvil, a reinforcing cup which is quite tall, and a long anvil. A quick glance at a shotshell will show you the difference.

DON'T CONVERT OLD WINCHESTER

I have a .32-20 Winchester Model 1873 lever-action rifle. Can I rebarrel it for the .222 Remington, or .218 Bee?—GEOFFREY KERR, Blacksburg, Va.

Answer by Harold MacFarland: Do not attempt to convert that 1873 Winchester to .222 Remington, .218 Bee, or .22 Hornet. Do not shoot even modern high velocity .32-20 loads in it. This action is locked shut only by soft pins and a simple toggle

action. It will disintegrate like the wonderful one hoss shay with any hot varmint load.

LLAMA PISTOL

I have a Spanish Llama .32 automatic pistol. It is one of the finest automatics I have shot, but there is some play in the barrel when the slide is in firing position, and there is a fairly large amount of play in the barrel when it is in position to load another shell in the chamber. Could this play allow dangerous wear? Who could correct this condition?—PVT. MERLIN L. PONTIONES, Albuquerque, N. M.

Answer by Harold MacFarland: I think there is no particular danger either to the gun or yourself in shooting that Spanish .32 in its present state of looseness. However it was never intended for a target gun and will not be particularly accurate. Some looseness is inherent in the design and does no harm at all.

CONTROLLED EXPANSION BULLETS

We have just received a very good report on controlled expansion bullet performance from Paul Wright, Box 553, Silver City, N. M. In his opinion, the Ackley .22 caliber controlled expansion bullets have shed a new light on light bullets at extremely high velocity. For hunting loads, Wright merely pulled the 48-grain bullet from factory .220 Swift ammunition, and replaced it with the 50-grain Ackley controlled expansion bullet. In his tests, in his rifle at least, there was no apparent indications of excessively high pressure. While he says accuracy was not good enough for 300-yard jackrabbit shooting, it was OK at least on one 240-yard shot on antelope. Even at this range the controlled expansion bullet penetrated both shoulders and lungs, leaving about a one-inch hole on the opposite side. Another antelope, taken with the same bullet and load, was stopped with one shot which shattered the pelvis and came out the brisket, and still the bullet was not recovered. Even a chest shot on an Arizona whitetail left no bullet to be examined.

While Wright feels he could stop animals even as big as elk with this combination, he still sticks to the 150-grain Nosler Partition Bullet in .30-'06 loaded to approximately 3,000 feet per second using 53 grains of 4895 powder, lot 2191. A neck shot on an elk literally decapitated it. Still no bullet to examine. Another taken at over 200 yards resulted in the bullet shattering the heavy shoulder, cutting off a few ribs and crossing the chest cavity to lodge against the hide on the opposite side. The bullet was perfectly mushroomed to about .55 caliber.

So far, all reports received on these controlled expansion Ackley bullets and the Nosler Partition bullets have been extremely favorable.—AL BARR.

OVERLOAD IN REMINGTON .222

In the April Dope Bag, you recommended No. 4198 powder with a maximum load of 21½ grains for a 45-grain bullet. My first .222 was damaged, ruining part of the bolt, but luckily not hurting me. A gunsmith put 22 grains of 4227 powder behind the 50-grain Sisk bullet. I have a card stating this is what it was loaded with. Knowing nothing about handloading, I assumed he knew what he was doing, being a member of the American Gunsmith Guild. After the explosion I sent one of three

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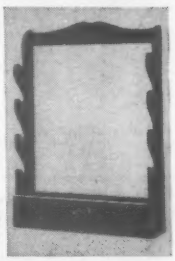

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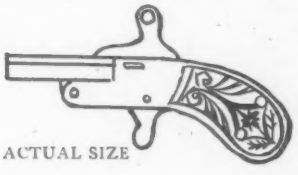

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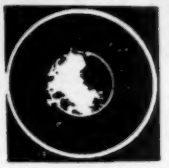

This five shot group was fired by C. E. Purdie of Gopher Shooter's Supply. Distance was 50 yards, prone position. Group shown is actual size. A Remington 37 and Palma Match ammunition were used. The same Combination won the Minnesota State Small Bore Championship on June 24, 1951. C. E. Purdie also won the Lake Region Gallery Rifle Championship with a score of 781, using a Winchester 52 and Western Super Match ammunition. The foregoing statements are made merely to verify the quality of the products which we handle. We KNOW they are good because we hav TRIED them. Western, Winchester, Remington and Peters match and regular ammunition are better than ever! We have them all in stock for prompt shipment.

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boxes he loaded to Remington for a ballistic test. They said the minimum load had a pressure of 77,000 pounds per square inch and the maximum load had a pressure of 89,000 pounds—the average being 82,500, as against a maximum average for factory loads of 46,000 pounds. They also said to quit shooting them and I was lucky I wasn't seriously hurt.—BOB WHEAT, Prophetstown, Ill.

Answer by General Hatcher: In the June Dope Bag, Al Barr told of a Remington .222 being damaged by a load of 19 grains of 4227 powder. He stated that 4198 was the safest and most suitable powder for the .222.

In the July Dope Bag, Phil Sharpe listed loads for the .222 Remington and, as in the April issue, recommended use of 4198 powder. Repeated tests have shown that 4198 powder is the safest and most suitable powder for use in the .222 Remington. Others, as Sharpe said last month, may be used, but dangerous pressures may develope.

GUNSTOCK GLUE

What is the best glue for fastening ivory inlays in a walnut stock? I have tried Casein glue without satisfactory results.—O. R. WEIDEMAN, Portland, Oregon.

Answer by Harold MacFarland: Casein glue usually becomes too brittle for gunstock work. The one most commonly used by stock makers is "Franklin's Hide Glue". This is very good, and is available at many of the better hardware stores and lumber yards. I have found a new synthetic that is very good too; "Willhold", a white plastic material, will hold a wood joint while you break all the wood from around it.

.45-70 WINCHESTER SINGLE SHOT

To settle an argument that is likely to break up a beautiful friendship, could you tell me if Winchester ever made the 1885 Single Shot in .45-70 caliber? He says no, and I say yes.—JOSEPH M. BOYLE, JR., Bayside, L. I., N. Y.

Answer by General Hatcher: Yes, the 1885 Winchester Single Shot was made for practically every cartridge that was in the book in those days.

An old Winchester catalog in my files says of this gun . . . "made in all desirable calibers from .22 to .50". It was chambered for at least thirty-nine separate and distinct cartridges, including the .45-70.

SUBSTITUTE FOR .35 S&W CARTRIDGE

Is there another U. S. cartridge interchangeable with the .35 S&W Auto?—ROBERT SHERMAN, Los Angeles, Calif.

Answer by General Hatcher: Strictly speaking, there is no other U. S. cartridge that is interchangeable with the .35 S&W auto, but it is possible to use .32-caliber automatic pistol cartridges in the .35 S&W automatic pistol, though the results are not quite as good as would be obtained if the proper .35 S&W cartridge were obtainable. However, it is no longer made, so about the only thing the owner of one of these guns can do is to use the .32 automatic pistol cartridge and hope for the best.

The .35 S&W automatic pistol came out in 1913 and was discontinued in 1921. The cartridge was a special design by Smith & Wesson in which the point of the bullet was covered with a metal jacket, but the cylin-

drical section near the base was made of plain lead so as not to wear the grooves of the rifling. The cartridge is actually a .32, but was named the .35 in order to distinguish it from other .32's.

B.S.A. 12/15 MARTINI

I am thinking about getting a B.S.A. 12/15 Martini. How does it compare with a Winchester Model 52 or Remington Model 37? The 12/15 seems quite reasonable at £17.10 or about $50.00, with Parker Hale sights. Is the B.S.A. likely to develop any ills that might be difficult to cure once I got it home.—H. L. SCHWARTZBERG, Bucks, England.

Answer by Al Barr: I have used one of the BSA Martini rifles in .22 rimfire caliber and I think it is a good job. With the correct ammunition I think it will shoot right along with the Model 52 Winchester and Model 37 Remington rifles. I think that the manufacturers of the BSA know what they are doing at the present time in the way of making barrels to shoot CIC as well as American ammunition.

In my opinion there is no single shot better than the BSA Martini for a .22 rimfire rifle. Of course, as you know, not every .22 rimfire rifle will handle all kinds of ammunition so you will still have to find the brand which performs best in it. We have to do the same thing with the Winchester M52 and Remington M37 rifles. No one can tell you which will work best, and you will have to try them all to find out.

PATTERN-14 RIFLE

What is the P-14 Service model? I have been advised by a gun firm in Canada that it comes into the United States duty free, because it is of U. S. make.—DR. P. J. MAJERUS, Fort Atkinson, Wisconsin.

Answer by General Hatcher: In 1907 the British adopted the short magazine Lee Enfield rifle (SMLE) using the well-known .303 British cartridge.

Three years later they began the development of a new rifle to permit the use of a higher powered .276 caliber, rimless cartridge with improved ballistics. This was adopted in 1913 under the name of "Rifle Enfield, Caliber .276, Pattern of 1913."

However, before that rifle was in quantity production World War I broke out and the British decided to abandon the new caliber and stick to the .303. Therefore, they made the same rifle in .303 caliber under the name of "Rifle Enfield, Caliber .303, Pattern of 1914."

As their own production was insufficient to meet their war needs, they came to this country and gave enormous orders for these rifles to Winchester and Remington. The Remington company also contracted to build a very large rifle plant at Eddystone, Pennsylvania, to manufacture these rifles.

These plants proved to be more or less of a disappointment to the British, as they were slow in getting into full production and by the time a satisfactory volume was achieved the British had overcome their rifle shortage by production in their own plants. By the early part of 1917 the British started reducing these contracts, and when the United States entered the war in 1917 our Ordnance Department changed the Pattern-14 rifle to .30-'06 caliber and it became the U.S. Model of 1917.

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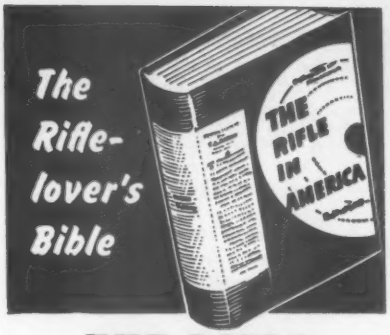

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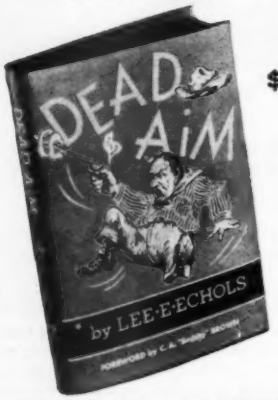

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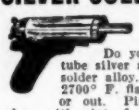

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These rifles were made in three places: by Winchester, marked "W"; and by Remington, marked "RE" (for Remington-Enfield). In addition, the stocks of the Remington guns were marked on the right, "IR" for those made at Ilion and "ER" for those made at Eddystone.

BALLISTICS OF 6.5x55 MM.

Sometime ago I picked up a 6.5x55 mm. Mauser rifle. This gun is not a war relic and was manufactured by Merkel. I was able to obtain some ammunition manufactured by Norma and found the gun was very accurate. However, I have not been able to find out what the velocity of the bullet is supposed to be. Could you tell me the ballistics of the 6.5x55 mm. cartridge with 156-grain bullet?—Lewis Seaborn, Youngstown, Ohio.

Answer by General Hatcher: The standard German ballistics for that cartridge (the 6.5x55 mm. with 156-grain bullet) are 2,450 feet per second giving approximately 2,100 foot pounds of energy. The pressure is supposed to be about 40,000 pounds per square inch. I don't know how close the Norma cartridges come to these ballistics, but I imagine they are very close, as the figures given are the standard for this cartridge.

LOW-WALL WINCHESTER

I have a fine Winchester low wall (thick side) receiver fitted with an A. O. Niedner barrel chambered for the .22 long rifle cartridge. Will the action stand a .222 Remington or R-2 Lovell? Which would be best? How would I convert this rifle? I'm working with a very good gunsmith, but he has never done any conversion work.

Is the twist in a .22 long rifle barrel OK for .22 Hornet, R-2 Lovell and .222 Remington?—J. H. Faulkner, Jr., Greenwood, South Carolina.

Answer by Harold MacFarland: The Winchester Low-wall is on the border line of strength for a Hornet cartridge, and I certainly wouldn't chamber if for anything larger like the R-2 Lovell. The .222 Remington also has too much punch, and the rimless head wouldn't work well in a single shot action anyway.

Many Low Walls have been altered to Hornet and if the action is sound and tight, chances are it will take it OK. If that job was barreled by Niedner, he surely breeched it up solidly, since the old man was a good workman.

The long rifle twist will handle Hornet bullets.

The only tricky part of this conversion job is the firing pin. It must be relocated, the hole bushed solidly, and the tip of the new pin made much smaller in a neat fitting hole. The tip must be a true hemisphere and protrude about .55-inch. Unless these details are followed, you will have pierced primers that will let gas blow back through the action. Copy the firing pin tip size from a Springfield or Mauser. If the pin is any larger, the primers will flow back in the hole and burst.

When the firing pin is taken care of, you can rechamber the barrel, being careful to just cut deeply enough to permit free closing of the breech block on shells of several makes. There is a difference in them.

If you don't feel competent to hold the work to very close tolerances, I'd send the rifle to a shop specializing in single shot work like Vernor Gipson, Box 156, Salem, Indiana. Remember, a Hornet is tiny but it packs a lot of punch.

GUNSMITH TRADE DOPE

Tilden Manufacturing Company, 2750 N. Speer Blvd., Denver 11, Colorado informs us that the two piece Tilden mounts mentioned in the March 1951 issue of the RIFLEMAN are available also for Lyman Challenger and Stith 4X and 6X double adjustable scopes. The mounts have split rings. Challenger front rings are made in 2 diameters, one for the main tube and a slightly larger one to fit the rear of the objective lens housing. The larger ring fitting the housing allows the scope to be placed nearer the shooter's eye. The same type mounts with split rings are being made also for Zeiss Zielvier and Zielsechs scopes.

Lyman Gun Sight Corporation, Middlefield, Connecticut, have prepared a handy and useful quick reference table for Ideal re loading tools and dies. Complete illustrated list of Ideal bullets gives bullet number and weight in grains, and a reference table gives a complete breakdown of Ideal reloading tools and dies, listing the parts required for most reloading popular calibers. The useful chart is available free of charge on request from the above firm.

D. McFadden, Harbor Rifle Shop, 201 W. Eklund, Hoquiam, Washington, converts the Model 1903 Springfield trigger guard so it may be fitted to the 1917 Enfield receiver, to eliminate the wide, unsightly Enfield guard often objected to when this rifle is made up into a sporter. The conversion job is neat, with quick release floorplate button. Also, if desired, the guards can be equipped with a hinged floorplate.

R. A. Litschert, Winchester, Indiana, who features rifle scope objective attachments, has added a new Spot Shot attachment in 6X and 8X for most of the popular hinting scopes. The Spot Shot has a sliding objective unit similar to that used on the Litschert Spot Shot target scope, and sells for $18.50. The regular Litschert Targeteer attachment made for all hunting scopes costs $25.00.

Firearms International Corp. has moved to 6521 Kerby Hill Road, Washington 20, D. C.

Price of the blued and finished FN barrel and action has been increased from $71.50 to $74.00, and the FN rifle complete except for sights now sells for $137.50. According to Firearms International the price increase was necessary to absorb part of Farbique Nationale's recent price increases.

Hilary McInturff of Mac's Repair Shop, P. O. Box 35, Usk, Washington specializes in equipping bullet mold blocks with an automatic attachment for making hollow-point bullets. With this ingenious automatic attachment, hollow-point bullets can be made as quickly as the solid type. An

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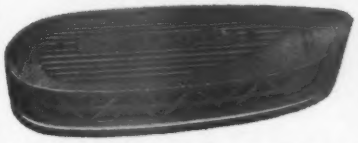

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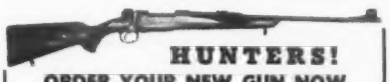

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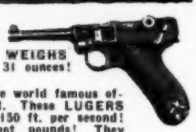
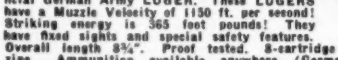
9 MM GERMAN AUTO. LUGER $39.50 WEIGHS 31 ounces!



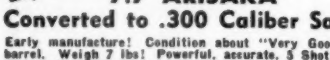
"Very Good" condition. The world famous official German Army LUGER. These LUGERS have a Muzzle Velocity of 1150 ft. per second! Striking energy is 365 foot pounds! They have fixed sights and special safety features. Overall length 8¾". Proof tested. 8-cartridge magazine. Ammunition available anywhere (German and American made). SAME MODEL "EXCELLENT CONDITION" $49.50.



$42.50

7.7 ARISAKA
Converted to .300 Caliber Savage

Early manufacture! Condition about "Very Good." 25" barrel. Weigh 7 lbs! Powerful, accurate, 5 Shot Arisaka Bolt Action rifles converted to .300 Savage. Proof tested, fired with overload! Made for use with pointed bullets. Suggest pointed or semi-pointed (Winchester or Western Silvertip bullets preferred) as some hollow point or flat nose ammunition will not feed satisfactorily. SPORTER length. Military sights. Bolt handle bent down. New sling and swivel. While 30 last!



CLOSE OUT

.22 REMINGTON $12.98

Model 514A chambered for .22 short, .22 long and .22 long rifle cartridges, interchangeable standard or higher speed velocity. Adjustable rear sight, flat integral bead front sight. Special safety features. Full size. One piece pistol grip stock genuine walnut. 42" length, weighs 5¼ lbs. Brand new. Regular price $16.10.

.22 SAVAGE-STEVENS $10.98

22" Round, Tapered, Takedown Barrel—Receiver one piece. For .22L or .22S High speed or Regular cartridges. Bolt Action. Gold bead front, Sporting rear Sight with Elevation adjustment. Length 32", weighs 4 lbs. Reduced down for immediate sale from $14.12.

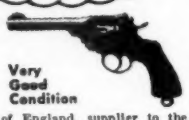
SCHIMEL GAS GUN

This is one of the best guns we've seen. Powered by gas from any common CO_2 Soda cylinder, obtainable everywhere. 20 to 25 smashing .22 caliber shots from a single cylinder. Shoots .22 pellets. Hammerless. No pumping necessary. Perfectly balanced. Adjustable rear sight. Precision rifle barrel. Sturdily-built throughout. Moulded grip plates. Length 9¼". Wt. approx. 38 oz. Gun blue finish. CO_2 cylinder and ammunition included.

(22 lead pellets are $1.49 per tin of 500)

$20.00

.455 WEBLEY $29.50 Very Good Condition



Made by WEBLEY of England, supplier to the British Government War Dept., Air Force, Navy and major Police Depts. Recently proof tested. W.H.B. Smith in the NRA's book "Small Arms of the World" states "One of the finest heavy duty hand weapons ever made. Permits opening and extracting cartridges with one movement of the hand." These revolvers TRIPLE lock cylinder during firing. Truly a fine value for $29.50. F.O.B. Chicago. Same model "Excellent Condition—$34.50. No C.O.D.'s please. Ammunition plentiful. Use any .450 or .455 Revolver ammunition suitable for Colt or S & W revolver (not automatic). Or we can supply Smokeless, Non-Corrosive 265 Grain 50—$5.35.

WALTHER 9MM P-38 AUTO — $37.50

Official German Military. Barrel length 4¾"; overall 8½", weight 34 oz. 8-cartridge magazine. The P-38 is of very unusual design, with a double-action, so that after loading and closing the slide action it can be fired by simply pulling the trigger! Condition "Very Good."

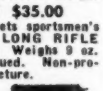
.25 PIEPER POCKET AUTOMATIC—$39.75

Featherweight! Compact PIEPER (Belgium made) for THIRTY years has maintained reputation for RELIABLE, strong, properly designed arms. Double safety with "squeezer". 2½" barrel. Overall 4", weighs 12 oz. Fixed sight. Blued finish. Hammerless design.

SMALLEST .22 AUTO. MADE $35.00

.22 VB Baby Automatic Bernadelli. Meets sportsmen's demand for Pocket Automatic using .22 LONG RIFLE cartridges, packs a punch! Easy to carry. Weighs 9 oz. 6 shot. 2½" barrel. 4½" overall. Blued. Non-projecting sights. Similar to above Pieper picture.

LLAMA AUTO. PISTOLS .32—$46.00 .380—$48.00 9mm Luger—$48.00



Famous Llama pistols, product of one of Europe's oldest, most reliable arms manufacturers. Postwar Spanish arms production is second to none in design, materials, finish, accuracy and dependability. Wide square sights. Disassemble without tools. Have checkered genuine walnut grips and hand honed and grooved triggers for smooth even pull.

Specifications

	.32	.380	9MM
Mag. Capacity	8	7	8
Weight	21 oz.	20 oz.	31 oz.
Height	4⅜"	4⅜"	5"
Length	6¼"	6¼"	7⅝"
Width	1"	1"	1-3/16"
Barrel length	3-11/16"	3-11/16"	4-13/16"
Penetration in pine at 17 yds.	3"	2¾"	3½" (30 yds.)
Sights	Patridge Grip & Manual	Patridge Grip & Manual	Patridge Manual
Safety			

UNITED ARMS GUARANTEE

If you are not absolutely satisfied in every way return gun within 5 days for a full unquestioned refund of your money. *RIFLE* cash orders shipped prepaid. C.O.D.'s include $5.00 deposit. *HANDGUNS* are all shipped F.O.B. Chicago and C.O.D. orders cannot be accepted. *In ordering firearms you must state in your order you are not a minor, alien, fugitive from justice, under indictment or been convicted of a crime of violence.*

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UNITED ARMS COMPANY

9043 S. Western Avenue — Dept. FA-1740 — Chicago 20

Federal Firearms Dealer #8780. Registered Firearms Importer (U.S. State Dept.) #2968

adjustment permits making solid bullets with the same mold blocks, and the depth of the hollow point can be controlled. The cost of the attachment is $10.

NEW PRODUCTS

One-Piece Firing Pin for the Springfield rifle is featured by Custom Gunsmith Service, 7670 San Fernando Road, Sun Valley 3, California. The Life Guard One Piece Firing Pin is similar in appearance to the one piece Mauser and Enfield firing pins. The pin eliminates the one weak point of the conventional two piece Springfield firing pin and striker. Price of the Life Guard One Piece Firing Pin, including heavy duty speed spring, is $10.00. Only the bolt assembly need be sent for this new pin.

Custom Shotgun Swivels are featured by Centre Firearms Company, 8 Centre Market Place, New York 13, New York. Intended to be fitted to double-barrel shotguns, front swivel is attached to underside of rib with two small screws. A conventional wood screw anchors rear swivel in buttstock. Swivels are neat in appearance, and accept a ¾ inch width sling. Centre Firearms Company also offer a matching sling made from fine top grain russet leather, which retails at $3.50. Swivels are $3.95 per pair.

New hunting scope known as the Pecar is being imported by the Ercona Camera Corporation, 527 Fifth Avenue, New York 17, New York. The scope is available with either steel or light metal tubes and is available in three models—3x60, 4x81, and 6x49. The 3x60, which we examined is 10¾ inches long and weighs only 6½ ounces. The 6x49 is 13 inches long and weighs 11 ounces. Factory specifications call for a 43 foot field for the 3X and a 28 foot field for the 6X. Our measurements showed a field of 38 feet 2 inches for the 3X, and 22 feet 10 inches for the 6X. Optics are good, but nothing exceptional. Some people may object to the appearance of the large projecting windage and elevation bosses and adjusting knobs. The coated lenses give good illumination and definition, but as in most German made scopes, there is some curvature of field and fuzziness near the edges, particularly in the 6X. The 6x49 though is the shortest and most compact 6X hunting we have seen.

The 3x60 has a 22 mm. tube with 20 mm. objective and 27 mm. eye lens. The 4x81 and 6x59 have 26.5 mm. tubes. The 4X has a 37 mm. objective and 36 mm. eye lens, while the 6x49 has a 43.5 mm. objective and 36 mm. eye lens.

Collapsible target frame made of ¾-⅛ inch strap iron, weighing only 2¾ pounds is made by John H. Yaple, The Valley Forge, Taos, New Mexico. Hinged corners of frame permit folding into small, convenient package about 3 feet long. Side pieces are extended and pointed at bottom to permit pressing into ground; additional support is not necessary. Targets are held in place on 18 x 18 inch frame, by small coil springs and pincher type clothespins. Larger size frames can be obtained on special order. Retail price is $5.75.

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Rates: 25 cents per word including name and address—minimum charge $3.00. Advertisements *must be accompanied by remittance*, addressed to "The Arms Chest," American Rifleman, made payable to "National Rifle Association"—1600 Rhode Island Ave., Washington 6, D. C. *Insertion will not be made until payment is received.*

2. Closing Date: All advertisements must be received with advance payment by not later than the 1st of the month preceding date of issue. (Example: Aug. 1st for the Sept. issue. Ads received after Aug 1st and not later than Sept. 1st will be inserted in the Oct. issue.)

3. All Ads Subject to These Conditions: We reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

4. Transactions Based on Good Faith: Deliberate misrepresentation, or violation of the codes of good sportsmanship and good business ethics, will constitute grounds for refusal of advertising, and may result in disbarment from N.R.A. membership.

5. Blind Ads Not Acceptable: Blind ads, with box numbers *only*, will not be accepted. Give your COMPLETE name and address, to insure prompt and certain delivery of all mail or telegraph replies.

NOTE: Postal authorities no longer are required to provide directory service for even first-class mail which does not carry a *complete* local address!

6. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters are counted as one word (example: W. H. Smith (W. H. counts as one word); H. B., meaning heavy barrel, etc.; W. H. and H. B. are one word) Hyphenated words are counted as two words (example: 20-gauge, pearl-handled, no-slip).

7. No Responsibility for Illegible Copy: The publishers are not responsible for errors in printing advertisements, due to illegible copy; type or print clearly all ads.

8. All Articles to Be Properly Described: To avoid misunderstandings the condition of every advertised article should be described in accordance with the following definitions, NEW—not previously sold at retail, in same condition as current factory production; NEW—DISCONTINUED—same as NEW, but discontinued model. The following definitions will apply to all SECOND-HAND articles: PERFECT—in new condition, in every respect; EXCELLENT—new condition, used but little, no noticeable marring of wood or metal, bluing perfect (except at muzzle or sharp edges); VERY GOOD—in perfect working condition, no appreciable wear on working surfaces, no corrosion or pitting, only minor surface dents or scratches; GOOD—in safe working condition, minor wear on working surfaces, no broken parts, no corrosion or pitting that will interfere with proper functioning; FAIR—in safe working condition but well worn, perhaps requiring replacement of minor parts or adjustments which should be indicated in advertisement, no rust but may have corrosion pits which do not render article unsafe or inoperable; POOR—badly worn, perhaps requiring major adjustments or repairs to place in operating condition.

9. WARNING TO PURCHASERS: The publishers *will accept no responsibility* for *any* unsatisfactory transaction involving articles which have not been described in accordance with the foregoing NRA standards. Purchasers or traders should therefore insist that sellers give clear descriptions of all articles, in accordance with these standards—*before* any transactions are consummated. Purchasers should also request shipment by express C.O.D., *with examination privileges;* the purchaser may (and should) then examine the shipment in his local express office—if unsatisfactory the article will then be returned by the express company to the shipper, at the latter's expense.

10. The National Firearms Act forbids the sale of the following: (*a.*) Full automatic machine guns. (*b.*) Rifles and shotguns with barrels less than 18 inches in length or 16 inches in the case of a weapon of .22 or smaller caliber. (*c.*) Handguns such as the Mauser or Luger automatic pistols, when such weapons are equipped with detachable butt stocks, except that all of the above may be sold by a Federal licensed dealer who has paid the special tax required by Section 3260, Internal Revenue Code.

NOTE:—"Barrel length", as it applies to the above, is determined by the insertion of a cleaning rod from the muzzle until it comes to rest against the face of the closed breech.

11. Fair Trade Laws: Advertising will not be accepted for articles to be sold in violation of Fair Trade laws after the manufacturer has advised the NRA that such violation exists.

FOR SALE

190-PAGE PROFUSELY ILLUSTRATED catalog crammed with antique and modern pistol, sword, dagger, etc. values sent on receipt of 50¢. Robert Abels, R860 Lexington Avenue, New York, 21.

PRIMERS WITH BULLETS OR LOADING tools, new and used guns. Davis, 1016 Greenwich Street, Reading, Penna.

BARREL STRAIGHTENING VISE, GENUine. Write for details. Will swap. Rios, 49 Church, Westfield, Mass.

RIFLES, WIN. MODEL 94, LEVER ACTION, in cals. .30-30 and .32 Special, new, $72.15. Immediate delivery. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

WINCHESTER MODEL 52, V.G. REDFIELD rear, Lyman front, $55.00. A. E. Maddock, 508 S. Main, Pennington, N.J.

GUN CASES, TERRIFIC VALUE, FULL length, Suedelike finish, soft fleecy lined, weatherproof. Have models for most any rifle or shotgun (state type gun). Sent Prepaid for only $1.69. Goodwear "Brooklyn's Great Gun Exchange", 177 Flatbush Ave., Brooklyn 17, N.Y.

NAVY OXFORDS, GENUINE U.S. SURplus, finest black calfskin, famous makes, specify size. $7.95, check or Money Order. (Add 50¢ for Postage and handling). AR Rudolph's Atchison, Kansas.

RIFLES: JAP SPORTER, CALIBER .300 Sav., very good, $32.00. 7.65 Belgium, issue, good plus, $25.00. 6.5 Italian, good, $16.00. 7.7 Jap, war issue, very good, $16.00. Russian bolt-action, laboratory test rifle, very good, $70.00. Hi-Number .30-'06 Springfield, excellent, $55.00. Kentucky perc. rifle, about .40 cal., good plus, $40.00. G-43, good, $42.50. Marlin .35 lever action, micro rear and target front, like new, cost $110.00, sell for $92.50. .270 bbl. blank, $12.00. Pedersen device, parts missing, poor, $20.00. .45 auto. slide, $6.00. 250 .30 military bullets, $6.00. .22 Stevens mod. 416 target rifle, excellent, $40.00. 6.5 Jap, good, $15.00. Jap rechambered to .257, very good, $22.00. Parts for Springfields, Enfields, Japs, and others, no lists. Excellent nipple wrenches for perc. pistols, $2.00. 8mm Mauser, good, $28.00. Joffe, 5114 Spruce St., Philadelphia 39, Pa.

RUBBER RECOIL BOOTS TO FIT ANY rifle or shotgun, value $2.50 each. Sale 3 for $1.00. Carryall, new, Gov't. Surplus, large canvas roll Carryall with two web straps and handle for Sportsmen, Ball Players, Campers and Travelers, value $12.50—Special $1.95. Jacobs Automatic Safety for Remington Automatic and Winchester Pump Shotguns, Model 12, new, value $7.95—Special $4.50. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

BIG CATALOGUE ANTIQUE GUNS, $1.00. 475 photographs. Satisfaction guaranteed. G. B. Hebard, Knoxville, Illinois.

8 M/M NAMBU PISTOL AMMUNITION (50), $6.50. .35 Winchester 1895, factory soft points (20), $5.00. 8 m/m Mauser, $3.85. 6.5 Jap soft points (custom), $4.25. 6.5 Italian, $4.75. .256 Newton or 7.7 Jap soft points, $3.50. .38-56, .40-60, .45-60, .40-65 Winchester, black powder, lead, $3.75. .38-56 soft points, $4.25. Send dime for complete list of guns and ammunition. Central Sports, Delphos 2, Ohio.

ITHACA #4 DOUBLE 16-GAUGE, 28" IMproved and modified, new Miller Selective Single Trigger, new full Beavertail interchangeable forend, extra beautiful wood throughout, excellent condition. Sell, $350.00. William G. Hoffend, Box 1204, Rochester 3, New York.

.45-70 RIFLE CARTRIDGES, $10.00 PER 100. 7.62 Russian Rifle cartridges, $10.00 per 100. .303 British Rifle cartridges, $10.00 per 100. .45 Automatic Pistol cartridges, $7.50 per 100. .351 Winchester self-loading, $11.80 per 100. .25 cal. Stevens Rim-Fire, $4.50 per 100. .32 cal. Rim-Fire Shorts, $3.50 per 100. .32 cal. Rim-Fire Longs, $4.00 per 100. .33 Win. Rifle cartridges, $19.25 per 100. .405 Win. Rifle Cartridges, $21.75 per 100. 8 mm Mauser, 170 grain, soft point cartridges, $19.25 per 100. .375 Magnum, 300 grain, Silver Tip, $26.25 per 100. .25-35 Remington 117 grain, Core Lokt Express cartridges, $14.25 per 100. .32 Rem. 170 grain Core Lokt' cartridges. $15.75 per 100. .30-40 Krag, Super Speed, 180 grain soft point cartridges, $19.25 per 100. .38 Colt Automatic Pistol cartridges, $8.00 per 100. .44 Smith & Wesson Russian Revolver cartridges, $9.50 per 100. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

6-GUN RACK, WALNUT, BEAUTIFULLY finished, $11.95 Prepaid. 25¢ coin (deduct first order) catalogue, gun racks, cabinets. Knox Wood Products, Knoxville, Iowa.

PERCUSSION COLT AND REMINGTON parts. Flint and percussion locks. List 25¢. C. H. Weisz, 100 South Uhle Street, Arlington, Virginia.

WINCHESTER 12, 12, 30, FULL, 28" MODIfied, $95.00 each. Savage 99R, .300, sixty 180 grain cartridges, $125.00. Remington 513S, $55.00. All perfect. Want: Ithaca, Parker 10, 12 doubles, Smith 12 hammer, Specialty, crown. Bore and mechanism must be perfect. Albert Nalley, 3000 30th St., S.E., Washington, D.C.

FOR SALE: HUNTING CLOTHES, CAMPing equipment, shooting supplies, target and hunting accessories, gun tools, stocks and equipment, gunsmith supplies in Brownell's new free catalogue. A 1¢ Postal Card brings it. Brownell Industries, Inc., Main and Third, Montezuma, Iowa. (If you bought our No. 111—don't order. You'll get one anyhow).

PRE-WAR GRADE 4 GOLD INLAID Browning 16 automatic, like new. 2 barrels, $400.00. Fred Thom, Box 1913, Honolulu, Hawaii.

GOV'T. SURPLUS GOGGLES WITH RUBber frames for industrial use, all sports, skiing, automobilists and motorcyclists. Complete with polarizing lens. Value $4.50—Special $1.29. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

OUR "SHOCK-RESISTANT" SUN AND Shooting Glasses, specially heat-hardened to 7x normal strength, are practically unbreakable. They come in 2 useful shades: amber for target shooting, hunting and night driving and television viewing, and a soft medium green for everyday general use. Price, $2.65 per pair, or 2 pairs for $5.00, Postpaid. The frames are gold-plated and double-screw fastened for added durability. The wide-view lenses are precision-ground, polished and fully corrected. The reinforced, pearl brow rest and nose pads and adjustable ear pieces insure perfect comfort and fit. An attractive, lightweight belt-pocket carrying case comes with each pair. Money back guarantee. Life Member, Philip Jay Medieus, Dept. A-8, 18 Fletcher Street, New York 38, New York.

"MUCH BETTER THAN OTHERS!"

"Recently I advertised in The RIFLEMAN and five other gun magazines — you produced by far the best results. Your readers seem to be a much higher type clientele, seriously interested in *buying*—not just curiosity seekers!"

* * *

For you to reach the more than 260,000 shooters and hunters who will receive the October RIFLEMAN your 'Arms Chest' ad must arrive here by not later than September 1st.

See above for full instructions

Switch your favorite scope to any one of your rifles *in a few seconds!*

Price
$12.50 to $17.50
to outfit one gun...
$4.00 for each additional gun

There's an ECHO Base to fit popular rifles...an ECHO Ring Bracket to fit popular scopes.

ECHO SCOPE SIGHT MOUNT

Just two simple units—base and mount. Any ECHO Mount fits any ECHO Base, the precisioned accuracy of ECHO'S double clamps automatically locks the scope at *absolute* zero when switched to other guns.

Light weight, yet strong and sturdy! No loose parts to lose! Low scope position! Does not interfere with normal use of Metallic sights!

Own the favorite Mount of the world's best big game hunters. Your dealer will be glad to show it to you—or write for free literature—

E. C. HERKNER COMPANY, BOISE, IDAHO

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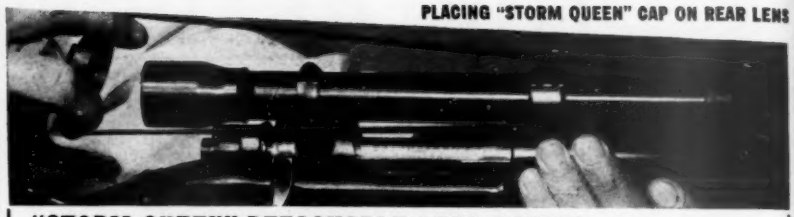

"STORM QUEEN" DETACHABLE LENS COVERS (Moulded Neoprene)

Use of these covers gives you all the light of clean, unobstructed lenses. Only $1.50 Postpaid, or from your Dealer. State size. .450 Watts Magnum Rifles. Anderson Safeties. Dealers' Inquiries Solicited.

ANDERSON GUN SHOP 1203 Broadway, Yakima, Washington

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CHISELS

The illustrated set of 8 chisels, gouges and V tool are the most used tools in inletting and bottoming of rifle and shotgun actions.
Made in Germany of first class tool steel, hardened and tempered by craftsmen of many years experience, they will hold sharp edges, are guaranteed against defects and under proper care will last a life-time.
This set is considered as the best on the market and a must among the tools of a gunsmith.
The tools are ground sharp and require only honing for keen edges.
Price per set of 8 tools is only $14.70.

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Work Unconditionally Guaranteed
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SERVICEABLE SA COLT PARTS: HAMmer, $4.25; trigger, $1.50; gate, $2.25; trigger guard, $4.50; ejector head, $2.00; mainspring, $2.00; screws 35¢ each; hand w/spring, $2.00; .45x5½" barrels, pitted, $3.25. 20-shot magazine for .30-'06 Springfield, $8.00. Parts for C&B revolvers. B. K. Wingate, Box 154, Carlisle, Pa.

LARGEST AND FINEST STOCK OF COLlectors' arms in America. Visit our shop or write us your wants. The House of Guns, Morris Plains, N. J.

RIFLES, WIN. MODEL 70, NEW, IN CALS. .30-'06, .270, .220 Swift, .257 Roberts, .300 H&H Magnum, $126.50. Immediate Delivery. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

NEW MODELS, 5E, 4E, ITHACA TRAP. Mod. 70's, Mod. 721's, 722's, all calibres 99 Savages. Specify, no trades. Discount to dealers on 70, 721, 722, 94, 99. Special, excellent Mod. 43 Bee, $49.95. Mod. 12 trap, $179.95. Mod. 24 $67.95. Mod. 94, .30/30, $59.95. Mod. 64, .30/30, $79.95. Overly's Gun Rack, Ephrata, Penna.

DEALERS — GUNSMITHS — GUN CLUBS. New guns—accessories—ammunition. 10% over wholesale plus postage. A. G. Hanak, Box 512, New Milford, N.J.

NEW RIFLES, IMMEDIATE DELIVERY. Prepaid and Insured. Winchester 70 Bolt, .22 Hornet, .220 Swift, .257, .270, .30-'06, .300 Magnum, .375 Magnum, $126.50. Winchester 70 Super-Grade, same calibres, $187.70. Winchester 94 Carbine, .30-30, .32 Special, $72.15. Winchester 64 Lever Rifle, .30-30, .32 Special, $95.80. #64 DeLuxe, .30-30, .32 Special, checkered, sling, $112.90. Winchester 71 Lever .348 calibres, $104.90, #71 deluxe .348, checkered, sling, $121.30. Winchester 43 Bolt .218B, .22 Hornet, .25/20, .32/20, $63.45, 43 Special Grade, same calibres, $77.35. Savage 99 E.G. Lever .250/3000, .300 Savage, $111.50. 99R Beavertail forearm, $114.50. 99RS Beavertail, Redfield micrometer, $127.00. Remington 721 Bolt, .270, .30-'06, $92.35. 721 .300 Magnum, $103.90 Remington 722 Bolt .222, .257, .300 Savage, $86.55. Marlin 336 Carbine, .30-30, .32 Special, $70.95. #336 Carbine .35 calibre, $80.80. Marlin 336A Rifle .30-30, .32 Special, $83.95. #336A .35 calibre, $94.45. Trade-Ins Accepted. Send Money Order or Check. Free gun list and illustrated literature of any Specified gun. Discounts to Dealers. Lay Away Plan. Mann's Sporting Goods Co., 100 Genesee Street, Utica, N.Y.

VARMINT GAME BENCH REST TARGETS. Crows, Chucks, Jack Rabbits, etc. 27 different 6x9 and 9x12 inch Long Targets Postpaid $1.00. Clear printed well designed on Bond Paper. Free with order 100 Chucks or Bench Rest. Send your order Now. Satisfaction Guaranteed. New Trenton Targets, P.O. Box 51, Cincinnati 5, Ohio.

COLT POLICE POSITIVE REVOLVERS, 5" barrels, brand-new, price $55.00. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

BUCKSKIN DRESS GLOVES, $4.50. BUCKskin Work Gloves, $2.50. Whitewater Glove Co., Whitewater, Wisconsin.

LIMITED SUPPLY—CUSTOM BIG GAME ammunition, most calibers, $4.50 box. September delivery. Paul Ratliff, Dayton, Oregon.

HANDSIGHTING LEVELS, IMPROVED, new model, used for grading land, contouring and laying out fences, piers, roads and gardens, price $2.50 Postpaid. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

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End gun rust worries once and for all with RIG-Universal. Proven protection for rifles, pistols, shotguns, tools, etc. Stops rust even in moist, tropical climates and salt sea air. Gun experts recommend RIG. Eliminates frequent cleaning. A 2 minute application after day's shooting prevents rust indefinitely. Get RIG at your gun store today! For Free Gun Care Guide write.

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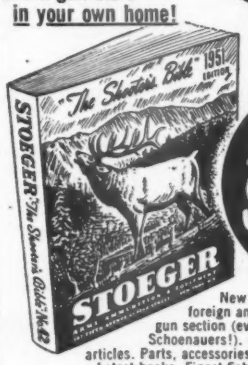

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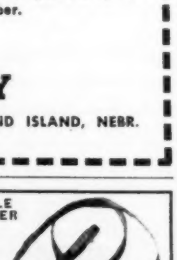

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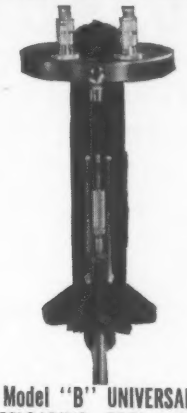

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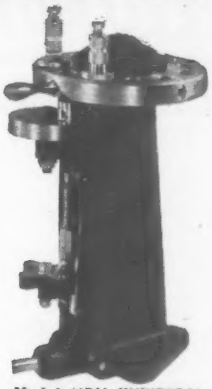

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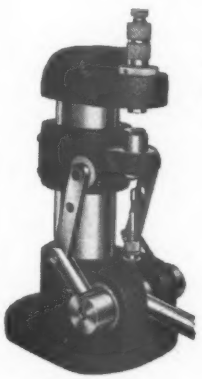

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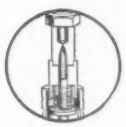

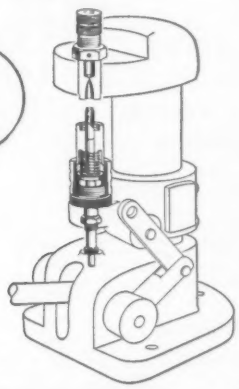

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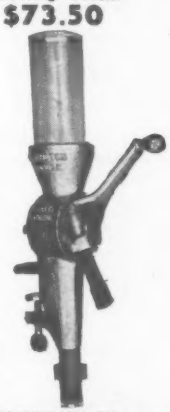

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LYMAN TOOLS

NO. 310 TONG TOOL, complete ..... $ 11.50
TRU-LINE JUNIOR BENCH TOOL, complete 22.00
No. 45 SIZER & LUBRICATOR 14.50
Extra sizing die, top and bottom punches 4.00
SINGLE CAVITY BULLET MOULD, $7.50. Blocks only 4.50
Two cavity mould, $10.00. Blocks only 7.00
Melting pot, $1.25. Dipper, .75¢. Primer pocket reamer, $2.50. Bullet lubricant, per stick ..... .40
Full length shell resizing tool 3.00

PACIFIC TOOLS

SUPER MODEL, complete 42.50
STANDARD MODEL, complete 34.65
Extra set dies, with full length or neck sizing die, with crimp or non-crimp seating die ... 12.50
Shell holder, $4.25. Hornet & Rem 222 shell holder, $5.50. Primer arm 3.00
Hollywood dies, per set 12.50
Shell holder, $3.00. Primer rod 3.00

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BELDING & MULL VISIBLE 12.50
HOLLYWOOD MICROMETER, with small or large drop tube 19.50
Extra drop tube, 1.00.

POWDER SCALES

REDDING. Fast, assurate, dependable 11.95
PACIFIC, complete with weights 8.95

L. E. WILSON TOOLS

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Extra shell holders, rifle calibers, each 1.25
Holders for pistol calibers, hardened 2.25
BURRING TOOL only 2.00
CARTRIDGE CASE GAGES, 220S, 257 Robts, 270, 30/06 ..... 4.50
PRIMER POCKET REAMER 4.50
FULL LENGTH SHELL RESIZING DIES 6.00
PUNCH & BASE SET, for removing crimped in primers 30/06 ..... 2.00
CHAMBER TYPE BULLET SEATER, 220 Swift, 22-250, 257-R, 270 and 30-06 ..... 8.25
INSIDE NECK REAMERS. .22, .220, 25, 270, 7 mm, 30 and 8 mm 5.50

LEAD SHOT

CHILLED. Sizes 1 to 12. $1.80 per 5-lb bag. $8.50 per 25-lb. bag. DROP SHOT in sizes in 4 to 9, and BB, $1.75 per 5-lb. $8.25 per 25-lb. FOB HERE. We will not ship shot COD. On small shipments by parcel post add one pound for packing and include sufficient funds to cover postage and insurance.
ALCAN SHOTSHELL WADS, 10, 12, 16 and 20 gauge, ½" fibre felt type, per 1000, $4.95. Over powder wads, $2.45 M. Over shot wads, $1.95 M. BE SURE TO STATE GAUGE.
LOADING BLOCKS, 50 hole, specify caliber $75¢.
IPCO GRAPHITE WADS, .033", .046" and .064", per box $1.00. IPCO BULLET LUBRICANT, per stick, 50¢
IDEAL HANDBOOK No. 38, postpaid ..... $ .75
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POWDER FUNNELS. Aluminum. Made to fit over the neck of the case, so please state cartridge to be used for. Each .75¢.
WHELENS "WHY NOT LOAD YOUR OWN," postpaid 3.50
POWDER. HiVel No. 2, Hercules No. 2400, DuPont 4227, $2.00-lb. DuPont 4759, No. 6 and 5066, $1.25 per 8-oz. can. Hercules Unique, 13 oz., $1.80. Bullseye, $1.60 per 11-oz. DuPont MX and bulk shotgun smokeless, $1.25 per 8-oz. Hercules RED DOT, $2.40-lb. PLEASE INCLUDE 25¢ PACKING CHARGE ON ALL ORDERS FOR POWDER.
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PURE LEAD, 5-lb. ingots, $1.50 each.
PURE BLOCK TIN, 1-lb. bar, $2.00.
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	Per 100
.224 cal. 45 gr. Hornet Spire SP	$2.50
.2225 cal. 50 gr. spire SP HV	2.75
224 cal. 50 and 55 gr. spire SP HV	2.75
257 cal. 87 gr. spire SP	3.75
308 cal. 150 gr. spire SP	4.50

SPEER BULLETS

	Per 100
.25 cal. 60 gr. $3.25. 87 gr., $3.75. 100 gr.	$4.00
6.5 mm 87 gr. spitzer .263"	3.75
270 cal. 117 gr. spitzer SP	4.25
7mm 130 gr., $4.50. 145 gr. $4.50. 160 gr.	4.75
30 cal. 110 gr. Ptd. SP HV	4.25
30 cal. 150 gr. Rd nose SP, not cannelured	4.50
30 cal. 150 gr. flat nose SP, cannelured	4.50
30 cal. 150 gr. spitzer SP not cannelured	4.50
30 cal. 180 gr. spitzer SP not cannelured	4.75
30 cal. 180 gr. Rd. nose	4.75
30 cal. 200 gr. Rd. nose or Spitzer SP	4.90
311 cal. 150 gr. spitzer, $4.50. 180 gr. Rd nose	4.75
8 mm 125 gr. Ptd. S.P. .323"	4.25
8 mm 150 gr. spitzer SP .323"	4.50
8 mm 170 gr. semi-round nose SP .323"	4.80
.3585 and .366" 250 gr. Spitzer SP	5.75

SIERRA BULLETS

	Per 100
.224 cal. 45 gr. spitzer or semi-ptd. SP HV	$2.75
.224 cal. 55 gr. spitzer SP HV	2.75
.257 cal. 117 gr. spitzer SP boattail	4.00
270 cal. 130 gr. spitzer SP	4.50
30 cal. 125 gr., $4.25. 150 gr. Spitzer SP	4.50
30 cal. 180 gr. spitzer SP BOATTAIL	4.75

ABC BULLETS

25 cal. 87 gr. $3.50. 100 gr. $3.75. 120 gr.	4.00
270 cal. 100 gr. $4.25. 130 gr. $4.50. 150 gr.	4.75
30 cal. 125 gr. $4.25. 150 gr. $4.50. 180 gr.	4.75
30 cal. 180 gr. Spitzer full metal jacketed boattail MATCH BULLETS	5.50
311 cal. 150 gr. spitzer	4.50

WE DO NOT PAY THE POSTAGE ON BULLETS. On .22 cal. add .15¢ per 100. Bullets from 60 to 100 grs. weight .25¢ per 100. From 110 to 180 gr., .30¢ per 100. Please give second and third choice if any. It is impossible to list all of the bullets we can supply. Write us for price list on available bullets. Stamped self addressed envelope appreciated.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

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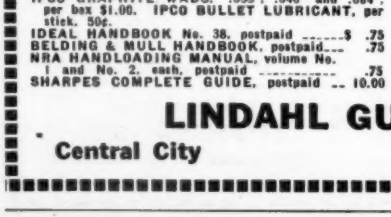
Central City **Nebraska**



Supplies of jacket material and primers for civilian ammunition are becoming increasingly difficult to obtain. We are making every effort to meet the needs of sportsmen who depend upon our finer bullets, but production will be far short of last year's demands. Manufacture of only the more popular types of bullets will be continued at the present time in order to meet the needs of the majority.

We urge you to conserve ammunition and give every hunter a chance to bag his game. Make one shot do the job by using SPEER game bullets—the finest in the world. SPEER bullets are scientifically designed and precision manufactured for consistent accuracy, flat trajectory and reliable expansion.

Buy sparingly, buy wisely and MAKE EVERY SHOT COUNT.

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TEN YEARS' GUN PROTECTION, ONLY $1.95. One quart can (32 oz.) U.S. Official Gun Oil, plus four 6 oz. cans (24 oz.) U. S. Official Gun Bore Cleaner, plus 500 unnapped twill cleaning patches, and brand-new U.S. Government chrome-plated oil can with dropper. All four items for $1.95, Postpaid. Oil and bore cleaner in original sealed U.S. Government cans. Special Offer: For only $1.00 more (total $2.95) we will include a brand-new rifle or shotgun carrying bag, made of tough war-surplus waterproofed 2-tone tent cloth, 7" wide x 48" long, with convenient double handles. Life Member, Philip Jay Medicus, Dept. A-8, 18 Fletcher Street, New York 38, New York.

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LIMITED AMOUNT RIFLE AND PISTOL primers. Core-Lokt 30 cal. 170, 180, 220 grain and .45, 70, 405 S.P. bullets for reloading. 30 cal. gas checks. Bielefeld, New Knoxville, Ohio.

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SPRINGFIELD 03 PEEP SIGHT—except A3 ....$4.95
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ARGUS PRISMATIC 20-POWER OBSERVATion telescopes, surplus stock, excellent condition with coated optics, $59.50. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

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NEW 722 .300 SAVAGE, $85.00. MODEL 11 5-shot 16-ga., shot twice, Pachmayr pad, $90.00. 1886 Win. .33 carbine, vg. in and out, Lyman disc., new Schoellkopf zipper case, seven boxes ammo., $175.00. Rem. Model 12, octagon barrel, Weaver 29-S, Marble R7 disc, fine sheepskin case, vg. in and out, $75.00. New 87 Stevens autos., $25.00. Many old calibre ammo. Write wants. Member. Charles Colvin, 1521 West Saginaw, Lansing, Michigan.

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12-GA., MODEL 12, SKEET GRADE, EXCELlent, $100.00. Cutts and Comp. Winchester Model 70, super grade, K4 Weaver scope, pre-war, .250/3000, excellent, $200.00. Inspection Allowed. James E. Caldwell, 164 Garden Drive, Bridgeport 6, Conn.

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PATENTS Without obligation, write for information on steps to take to secure a Patent.

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ON ORDERS FOR LESS THAN 100 CARTRIDGES, PLEASE ADD 10% EXTRA. NO SINGLE CARTRIDGES SOLD.

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Per 100 Imported Czech ammunition with 239 grain Soft Nose big game hunting bullet. This is factory ammunition, not reloads. Can furnish cartridge clips, 50¢ each.

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Per 100 cartridges Winchester make ammunition, with 174 grain Metal Point copper coated bullet. All factory loaded.

ALSO have some with 150 grain Soft Nose hunting bullet replacing the G.I. bullet at $13.75 per 100 cartridges.

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Per 100 cartridges for Model 16 rifles and carbines. Factory loaded in Europe with G.I. bullet. Also have American made hunting loads at $4.40 per box of 20 cartridges, 3 shot etge clips $1.25 each.

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Per hundred cartridges. Will also fit Polish Radom, Model 35, F & N Browning, Lahti and many others. Imported European factory loads. Have Luger parts, please advise wants as we do not have a list.

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Per hundred cartridges. This is the 8 m/m Mauser short cartridge used in the German Volkstrum (Peoples Shooter) "Burp Gun" and sold only for Police or Military use. Can also be furnished packed in 5 shot clips at $15.00 per 100 cartridges.

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Per 100 cartridges made in France. Factory loaded with 160 grain Metal Point bullet. Also have some with 150 grain Soft Nose hunting bullet replacing the G.I. bullet at $18.00 per hundred; 5 shot cartridge clips 50¢ each.

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Per hundred cartridges. Made in Belgium, factory loaded with Round or Pointed Metal Jacket bullet.

ALSO have some with 180 grain Soft Nose hunting bullet replacing the G.I. bullet at $21.00 per hundred.

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Per hundred cartridges M2 with 150 grain G.I. bullet. All factory loaded. Cartridge clips 5 shot, dozen $1.00. Garand 8 shot clips, $2.00 dozen.

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Per 100 cartridges. Made by U.M.C. with 500 grain lead bullet and smokeless powder. All factory loaded.

30 Cal. M1 CARBINE 30 Cal. $7.50

Per 100 cartridges all factory loaded with 112 grain full Metal Jacket bullet.

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6.5 m/m 25 cal. Jap. Soft Nose	Box (20)	$4.90
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7.7 m/m 31 cal. Jap Soft Nose	Box (20)	4.90
6.5x57 Rim for 3 barrel guns	Box (20)	6.00
7x64 Brenneke 139 grain Soft Nose	Box (20)	6.00
8 m/m Jap Nambu Pistol M.P.	Box (50)	8.00
8x57 J.R. Rim for 3 barrel guns S.P...	Box (20)	4.90
8x60 Mauser Magnum S.P. or H.P.	Box (20)	4.90
8x60 R.S. Rim Magnum Soft Nose	Box (20)	4.90
8x72/360 Rim for 3 barrel gun S.P.	Box (20)	6.00
9.3x74 Rim for 3 barrel guns S.P.	Box (20)	5.40
41 cal. Centerfire Italian Vertelli M.P...	Box (20)	4.90
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Carbine M1 30 Caliber Parts: Stock Assembly $3.75; Bolt assembly $3.95; Barrels stripped $6.00; Magazines $1.95; Trigger housing stripped $4.75; Piston and Nut $1.25; Trigger and Pin $1.50; Safety 75¢; Latest adjustable rear sight $1.95; Sling with oiler $1.50; Head space gages, $1.50 pair.

SPRINGFIELD PARTS

Magazine Spring .75¢. Extractor	$1.50
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Safety complete $1.00. Follower (milled)	1.50
Sear $1.00. Firing Pin Striker	1.00
Oiler, Thong and Brush	.60
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Ammo M2—150gr., G.I., Per 100	7.50

U.S. ENFIELD PARTS

.30/06 caliber Government BOLTS. Complete Assembly, $5.00 ea., (Two for $9.00), also stripped, but with extractor collar, $2.50 ea., (two for $4.00).

Enfield Magazine Depresser 15¢, Butt Plates	$ .60
Enfield Followers, milled, $1.20, Cocking Piece ..	1.00
Enfield Trigger Guard Stripped, $1.20, Triggers ..	1.00
Enfield Firing Pin 50¢, Bolt Sleeve	.50
Enfield Magazine Box $2.00, Magazine Spring	.50
Enfield Bolt Stop $1.50; Bolt Main Spring	.50
Enfield Safety Lock $1.00; Ejectors	1.00
Enfield Safety Lock Holder & Screw	.60
Enfield Bolt Stop Screw, 25¢; Extractor	2.50
Enfield Lock Plunger & Spring 50¢; Bolt Stop Rest	.25
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.303 British G.I. 174 gr. Per 100.	7.50

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Model 70 Super Grade, .220 Swift, .270 Win., .30/06 Gov't, 375 H&H Magnum, each $182.70.
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S&W .38 Spec. Combat, 4" barrel	71.50
S&W .38 Spec. Mil. & Pol., 2, 4, 5, 6"	61.50
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Colt Detective .38 Special, 2" blue	65.00
Colt 'Challenger' .22 Auto., 4½ or 6" barrel	52.50
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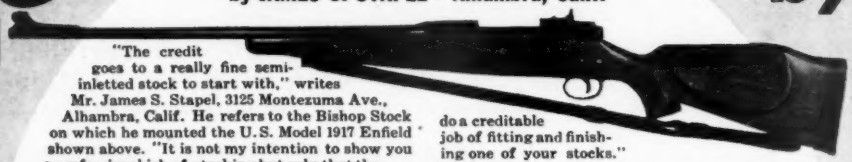
STOCK OF THE MONTH

by JAMES S. STAPEL • Alhambra, Calif.



"The credit goes to a really fine semi-inletted stock to start with," writes Mr. James S. Stapel, 3125 Montezuma Ave., Alhambra, Calif. He refers to the Bishop Stock on which he mounted the U.S. Model 1917 Enfield shown above. "It is not my intention to show you a professional job of stocking but only that the average individual can, with a few tools and some patience, do a creditable job of fitting and finishing one of your stocks."

Professionals and amateurs agree: You can always be sure of a *better* job . . . when you choose a gun stock by BISHOP.

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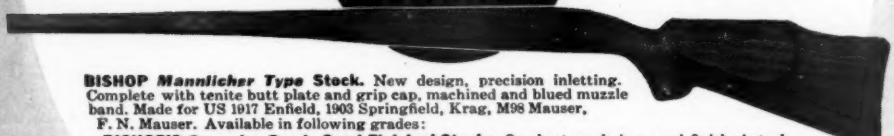

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BISHOP'S *Leader Grade* Semi-Finished Stocks. Same as Superior Grade except walnut is not of quality grain. Big bargain for those not demanding a stock of fine superior grain walnut. SPORTER type $5.00, MANNLICHER type $8.50, HEAVY TARGET type $14.50.

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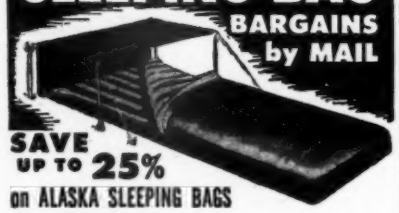

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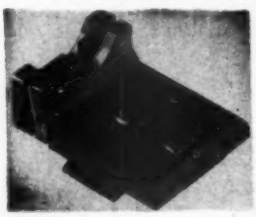

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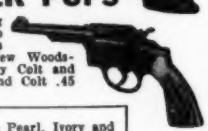

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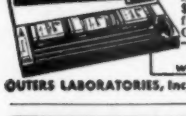

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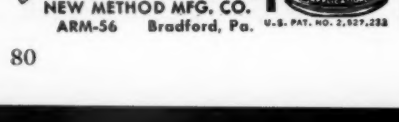

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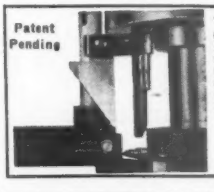

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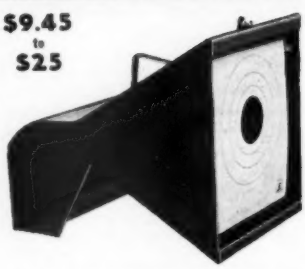

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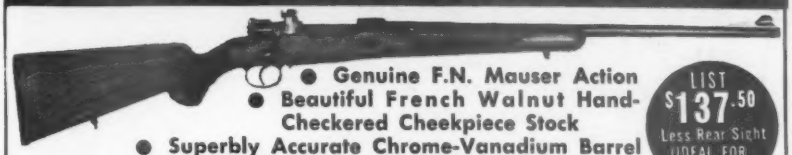

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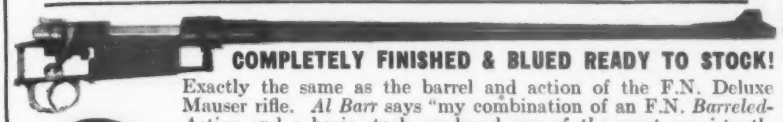

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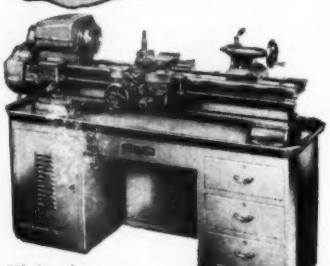

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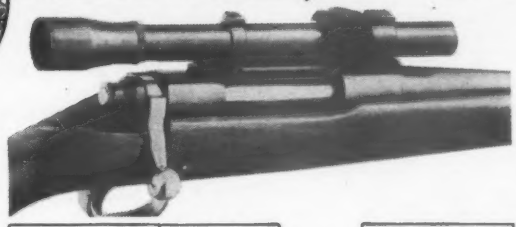

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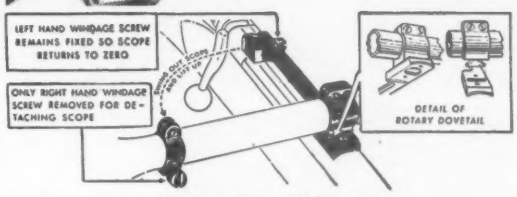
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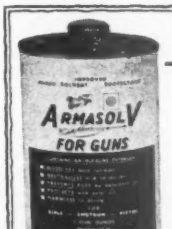

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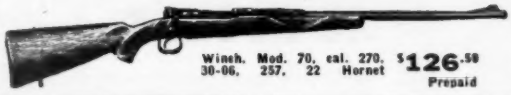

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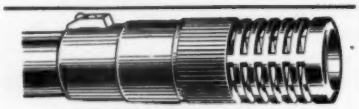

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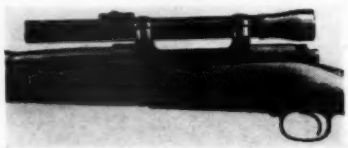

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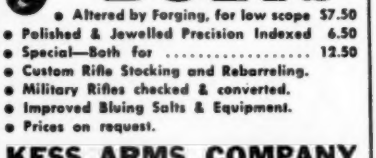

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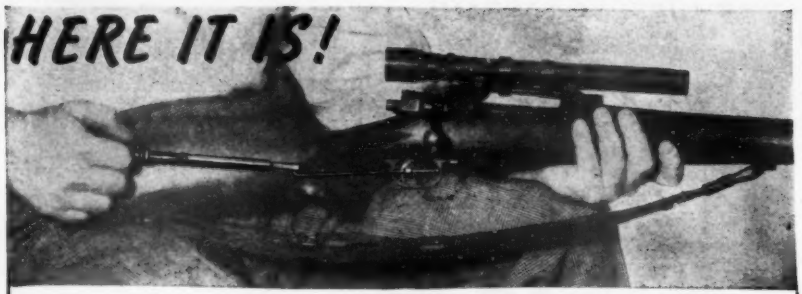

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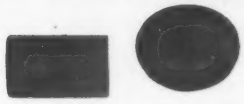
Price  ***$80.00***

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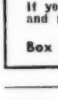

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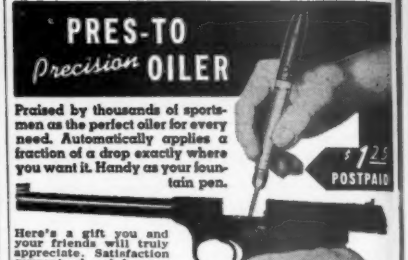

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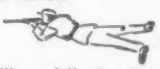

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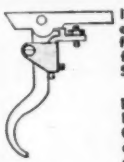

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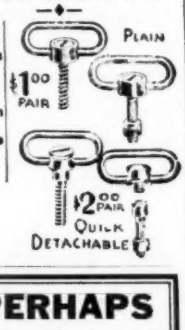

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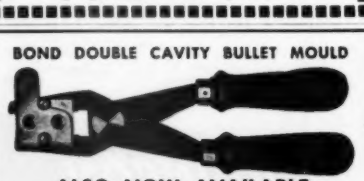

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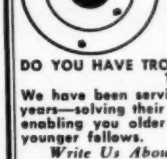

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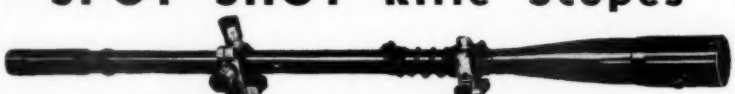

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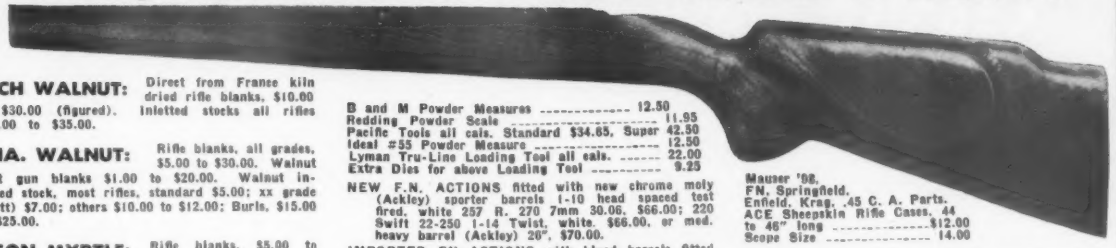

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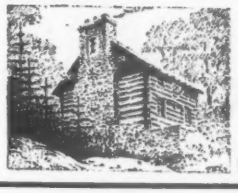

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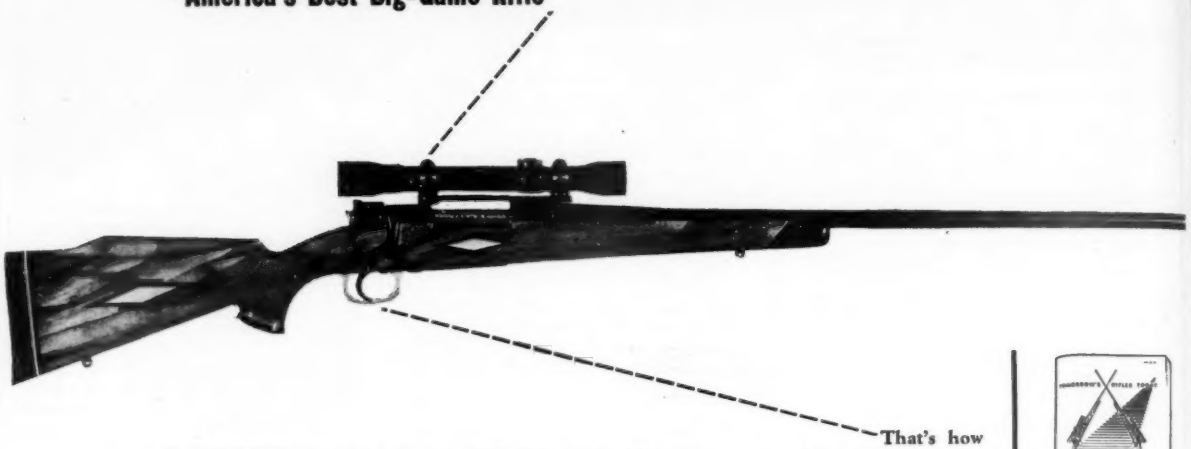

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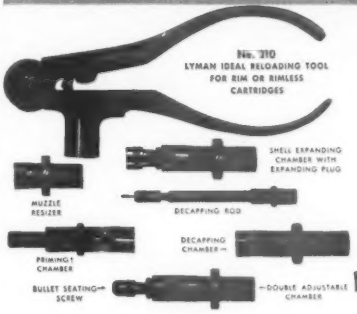

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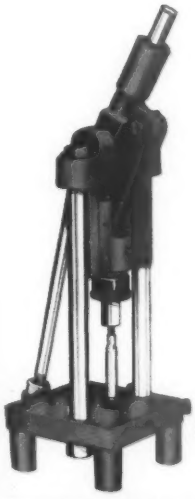

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